

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 2, 2005, 20:25:41 ; Search time 24 Seconds  
(without alignments)  
1558.299 Million cell updates/sec

Title: US-09-285-531A-2

Perfect score: 2802

Sequence: 1 MAPVAVMAALAVGLELWAAA.....PSTSFLLPMGSPPARSGTSG 501

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

- 1: /cgn2\_6/ptodata/1/iaa/5A COMB.pap.\*
- 2: /cgn2\_6/ptodata/1/iaa/5B COMB.pap.\*
- 3: /cgn2\_6/ptodata/1/iaa/6A COMB.pap.\*
- 4: /cgn2\_6/ptodata/1/iaa/6B COMB.pap.\*
- 5: /cgn2\_6/ptodata/1/iaa/PTUS COMB.pap.\*
- 6: /cgn2\_6/ptodata/1/iaa/backfiles1.pap.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1427.5	50.9	461	1	US-08-385-229-2
2	1427.5	50.9	461	2	US-08-650-000-2
3	1427.5	50.9	461	3	US-08-477-347-3
4	1427.5	50.9	461	3	US-08-476-362-2
5	1427.5	50.9	461	4	US-08-406-824A-2
6	1427.5	50.9	461	4	US-09-800-909-2
7	1427.5	50.9	461	4	US-09-758-124-2
8	1427.5	50.9	461	4	US-09-800-908-3
9	1427.5	50.9	461	4	US-09-949-016-6019
10	1427.5	50.9	461	6	5395760-2
11	1427.5	50.9	461	6	5395760-2
12	1427.5	50.9	491	4	US-09-949-016-7840
13	1421.5	50.7	461	3	US-09-042-785A-7
14	1421.5	50.7	461	3	US-09-006-353A-4
15	1421.5	50.7	461	4	US-09-573-986-4
16	1421.5	50.7	461	4	US-09-896-096A-17
17	1409	50.3	257	4	US-09-579-845-10
18	1409	50.3	518	1	US-08-385-229-4
19	1409	50.3	518	4	US-09-579-845-1
20	1409	50.3	518	4	US-09-579-845-3
21	1402	50.0	486	1	US-08-243-010-1
22	1308	46.7	235	4	US-09-580-235-8
23	1308	46.7	235	4	US-09-580-181-8
24	1308	46.7	235	4	US-09-102-530-8
25	1305	46.6	235	4	US-09-580-235-4
26	1305	46.6	235	4	US-09-580-235-4
27	1305	46.6	235	4	US-09-580-181-2

28	1305	46.6	235	4	US-09-580-181-4	Sequence 4, Appli
29	1305	46.6	235	4	US-09-102-530-2	Sequence 2, Appli
30	1305	46.6	235	4	US-09-102-530-4	Sequence 4, Appli
31	1302	46.5	235	3	US-09-326-394-4	Sequence 4, Appli
32	1302	46.5	235	4	US-09-580-235-6	Sequence 6, Appli
33	1302	46.5	235	4	US-09-580-181-6	Sequence 6, Appli
34	1302	46.5	235	4	US-09-102-530-6	Sequence 6, Appli
35	1263	45.1	227	3	US-08-974-022-48	Sequence 48, Appli
36	1263	45.1	227	3	US-08-795-447A-48	Sequence 48, Appli
37	1263	45.1	227	3	US-08-795-447A-48	Sequence 48, Appli
38	1263	45.1	227	3	US-08-974-186-48	Sequence 48, Appli
39	1263	45.1	227	3	US-08-795-446B-48	Sequence 48, Appli
40	1263	45.1	227	3	US-08-706-945D-134	Sequence 134, App
41	1263	45.1	227	4	US-08-577-788C-48	Sequence 48, Appli
42	935	33.4	163	4	US-09-523-323-54	Sequence 54, Appli
43	931	33.2	163	2	US-08-219-237B-5	Sequence 5, Appli
44	931	33.2	163	3	US-08-477-347-13	Sequence 13, Appli
45	931	33.2	163	3	US-08-476-862-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1  
US-08-385-229-2  
; Sequence 2, Application US/08385229  
; Patent No. 5605690  
; GENERAL INFORMATION:  
; APPLICANT: Jacobs, Cindy A.  
; APPLICANT: Smith, Craig A.  
; TITLE OF INVENTION: Method of Treating TNF-Dependent  
; TITLE OF INVENTION: Inflammation Using Tumor Necrosis Factor Antagonists  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Immunex Corporation  
; STREET: 51 University Street  
; CITY: Seattle  
; STATE: Washington  
; COUNTRY: U.S.A.  
; ZIP: 98101  
; COMPUTER READABLE FORM: disk  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/385,229  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/07/946,236  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Wight, Christopher L.  
; REGISTRATION NUMBER: 31,680  
; REFERENCE/DOCKET NUMBER: 2503  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 587-0430  
; TELEFAX: (206) 587-0606  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 461 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-385-229-2

Query Match 50.9%; Score 1427.5; DB 1; Length 461;  
Best Local Similarity 58.6%; Pred. No. 4.4e-94;  
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;  
QY 1 MAPVAVMAALAVGLELWAAHALPAQVAFTPAEPGTCRLREYDYDTQMCCSKSPG 60  
|||||

```
Db 1 MAPVAVWAALAVGLELWAAAHALPAQVAFYPAPEPGSTCRLREYDQTAQMCCSKCSPG 60
Qy 61 QHAKVFTKTSDDTVCDSCEDSTYTLNNWVPECLSCGSRCSDDQVETQACTREONRICTC 120
Db 61 QHAKVFTKTSDDTVCDSCEDSTYTLNNWVPECLSCGSRCSDDQVETQACTREONRICTC 120
Qy 121 RPYGWCALSKOEGRCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTDCR 180
Db 121 RPYGWCALSKOEGRCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTDCR 180
Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQVSTRSQHTQPTPEPSTAPSTS 240
Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQVSTRSQHTQPTPEPSTAPSTS 240
Qy 241 FLLPMGSPPPARGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 282
Db 241 FLLPMGSPPPARGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 282
Qy 283 STCRLREYDQTAQMCCSKCSPG---QHAKVFTKTSDDTVCDSCEDSTYTLNNWVPECL 339
Db 283 STCRLREYDQTAQMCCSKCSPG---QHAKVFTKTSDDTVCDSCEDSTYTLNNWVPECL 339
Qy 340 SCGSRCSDDQVETQACTREONRICTCRPGWCALSKOEGRCRLCAPLRCRPGFVGARPGT 399
Db 340 SCGSRCSDDQVETQACTREONRICTCRPGWCALSKOEGRCRLCAPLRCRPGFVGARPGT 399
Qy 400 ETSDDVCKPCAPGTFSTSTDCRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459
Db 400 ETSDDVCKPCAPGTFSTSTDCRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459
Qy 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPLMG 491
Db 420 QVPFSKEECAPRSQ--LETPTLLGSTEEKPLPLG 452
```

## RESULT 2

```
US-08-650-000-2
; Sequence 2, Application US/08650000
; Patent No. 5945397
; GENERAL INFORMATION:
; APPLICANT: Smith, Craig A.
; APPLICANT: Goodwin, Raymond G.
; APPLICANT: Beckmann, M. Patricia
; TITLE OF INVENTION: Tumor Necrosis Factor Receptors
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunex Corporation
; STREET: 51 University Street
; CITY: Seattle
; STATE: Washington
; COUNTRY: U.S.A.
; ZIP: 98101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/650,000
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,453
; FILING DATE:
; APPLICATION NUMBER: US/08/038,765
; FILING DATE:
; APPLICATION NUMBER: US 403,241
; FILING DATE: 05-SEP-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 405,370
; FILING DATE: 11-SEP-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 421,417
```

```
; FILING DATE: 13-OCT-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 523,635
; FILING DATE: 10-MAY-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Wight, Christopher L.
; REGISTRATION NUMBER: 31,680
; REFERENCE/DOCKET NUMBER: 2501-D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 587-0430
; TELEFAX: (206) 233-0644
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 461 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-650-000-2
```

```
Query Match 50.9%; Score 1427.5; DB 2; Length 461;
Best Local Similarity 58.6%; Pred. No. 4.4e-94;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;
Qy 1 MAPVAVWAALAVGLELWAAAHALPAQVAFYPAPEPGSTCRLREYDQTAQMCCSKCSPG 60
Db 1 MAPVAVWAALAVGLELWAAAHALPAQVAFYPAPEPGSTCRLREYDQTAQMCCSKCSPG 60
Qy 61 QHAKVFTKTSDDTVCDSCEDSTYTLNNWVPECLSCGSRCSDDQVETQACTREONRICTC 120
Db 61 QHAKVFTKTSDDTVCDSCEDSTYTLNNWVPECLSCGSRCSDDQVETQACTREONRICTC 120
Qy 121 RPYGWCALSKOEGRCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTDCR 180
Db 121 RPYGWCALSKOEGRCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTDCR 180
Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQVSTRSQHTQPTPEPSTAPSTS 240
Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQVSTRSQHTQPTPEPSTAPSTS 240
Qy 241 FLLPMGSPPPARGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 282
Db 241 FLLPMGSPPPARGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 282
Qy 283 STCRLREYDQTAQMCCSKCSPG---QHAKVFTKTSDDTVCDSCEDSTYTLNNWVPECL 339
Db 283 STCRLREYDQTAQMCCSKCSPG---QHAKVFTKTSDDTVCDSCEDSTYTLNNWVPECL 339
Qy 340 SCGSRCSDDQVETQACTREONRICTCRPGWCALSKOEGRCRLCAPLRCRPGFVGARPGT 399
Db 340 SCGSRCSDDQVETQACTREONRICTCRPGWCALSKOEGRCRLCAPLRCRPGFVGARPGT 399
Qy 334 -----SASALDRRAPTRNQPO---APGVEAS-----GAGEARAST 365
Db 334 -----SASALDRRAPTRNQPO---APGVEAS-----GAGEARAST 365
Qy 400 ETSDDVCKPCAPGTFSTSTDCRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459
Db 366 GSSD--SSPGHGQTQVNVTCIVNVCSDDHSSQCSQASSTMGD--TDSSPSES--PKDE 419
Qy 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPLMG 491
Db 420 QVPFSKEECAPRSQ--LETPTLLGSTEEKPLPLG 452
```

## RESULT 3

```
US-08-477-347-3
; Sequence 3, Application US/08477347
; Patent No. 6232446
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSKY, Igor
; APPLICANT: METT, Igor
; TITLE OF INVENTION: TNF LIGANDS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
```

STREET: 419 Seventh Street, N.W.  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: USA  
 ZIP: 20004  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/477,347  
 FILING DATE:  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/115,685  
 FILING DATE:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: IL 106271  
 FILING DATE: 08-JUL-1993  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Townsend, G. Kevin  
 REGISTRATION NUMBER: 34,033  
 REFERENCE/DOCKET NUMBER: WALLACH-10  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 202-628-5197  
 TELEFAX: 202-737-3528  
 TELEX: 248633  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 461 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-477-347-3

Query Match 50.9%; Score 1427.5; DB 3; Length 461;  
 Best Local Similarity 58.6%; Pred. No. 4.4e-94;  
 Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy 1 MAPVAVAAALAVGLELWAAHAALPAQVAFYPYAPPGSTCLRLREYYDQTAQMCCSKSPG 60  
 Db 1 MAPVAVAAALAVGLELWAAHAALPAQVAFYPYAPPGSTCLRLREYYDQTAQMCCSKSPG 60  
 Qy 61 QHAKVCTKTSDDTVCDSCEDSTYTQLNWVPECLSCGSRSSDQVETQACTREONRICTC 120  
 Db 61 QHAKVCTKTSDDTVCDSCEDSTYTQLNWVPECLSCGSRSSDQVETQACTREONRICTC 120  
 Qy 121 RPYGWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVVCVKPCAPGTFSTSTDIICR 180  
 Db 121 RPYGWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVVCVKPCAPGTFSTSTDIICR 180  
 Qy 181 PHQICNVVAIPGNASMDAVCTSTPTSRMAPAGVHLPPQVSTRSOHTOPTPESTAPSTS 240  
 Db 181 PHQICNVVAIPGNASMDAVCTSTPTSRMAPAGVHLPPQVSTRSOHTOPTPESTAPSTS 240  
 Qy 241 FLPLPMGSPPARGGGGGGGGGGSDPAQ-----GSTGDFALPVLGVITLGLLIIGVNCVIMTQVKKP- 291  
 Db 241 FLPLPMGSPPAE-----GSTGDFALPVLGVITLGLLIIGVNCVIMTQVKKP- 291  
 Qy 283 STCLRLREYYDQTAQMCCSKSPG---QHAKVCTKTSDDTVCDSCEDSTYTQLNWVPECL 339  
 Db 292 -LCLQREAKVPHLPADKARGTQGPQQHLLITAPSSSSSLES----- 333  
 Qy 340 SCGSRSSDQVETQACTREONRICTCRPGWCALSKQEGCRLCAPLRCRPGFVGARPGT 399  
 Db 334 -----SASALDRRAPTRNPFQ-----APGVEAS-----GAGEARAST 365  
 Qy 400 ETSDVVCVKPCAPGTFSTSTDIICRPHQICNVVAIPGNASMDAVCTSTPTSRMAPGAV 459  
 Db 366 GSSD---SSPGHGQTQVNVTCIVNVCCSSDSSQSSQASSTMGD---TDSFSES---PKDE 419  
 Qy 460 HLP---QPVSTRSQHTOPTPESTAPSTSFLPMG 491

Db 420 QVPFSEKCAPRSQ--LETPTLLIGSTEEKPLPLG 452  
 RESULT 4  
 US-08-476-862-2  
 ; Sequence 2, Application US/08476862  
 ; Patent No. 6262239  
 ; GENERAL INFORMATION:  
 ; APPLICANT: WALLACH, David  
 ; APPLICANT: BIGDA, Jacek  
 ; APPLICANT: BELETSKY, Igor  
 ; APPLICANT: METT, Igor  
 ; APPLICANT: ENGELMANN, Hartmut  
 ; TITLE OF INVENTION: TNF INHIBITORS  
 ; NUMBER OF SEQUENCES: 8  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: BROWDY AND NEIMARK  
 ; STREET: 419 Seventh Street, N.W.  
 ; CITY: Washington  
 ; STATE: D.C.  
 ; COUNTRY: USA  
 ; ZIP: 20004  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/476,862  
 ; FILING DATE: 07-JUN-1995  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: IL 107267  
 ; FILING DATE: 12-OCT-1993  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: IL 94039  
 ; FILING DATE: 06-APR-1990  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: IL 91229  
 ; FILING DATE: 06-AUG-1989  
 ; APPLICATION NUMBER: IL 90339  
 ; FILING DATE: 18-MAY-1989  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: BROWDY, Roger L.  
 ; REGISTRATION NUMBER: 25,618  
 ; REFERENCE/DOCKET NUMBER: WALLACH-12A  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 202-628-5197  
 ; TELEFAX: 202-737-3528  
 ; INFORMATION FOR SEQ ID NO: 2:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 461 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-08-476-862-2

Query Match 50.9%; Score 1427.5; DB 3; Length 461;  
 Best Local Similarity 58.6%; Pred. No. 4.4e-94;  
 Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy 1 MAPVAVAAALAVGLELWAAHAALPAQVAFYPYAPPGSTCLRLREYYDQTAQMCCSKSPG 60  
 Db 1 MAPVAVAAALAVGLELWAAHAALPAQVAFYPYAPPGSTCLRLREYYDQTAQMCCSKSPG 60  
 Qy 61 QHAKVCTKTSDDTVCDSCEDSTYTQLNWVPECLSCGSRSSDQVETQACTREONRICTC 120  
 Db 61 QHAKVCTKTSDDTVCDSCEDSTYTQLNWVPECLSCGSRSSDQVETQACTREONRICTC 120  
 Qy 121 RPYGWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVVCVKPCAPGTFSTSTDIICR 180

Db 121 RPYGMYCALSKQEGCRLCAPLRCRCPGFCVARGPTETSDVCKPCAPGTFSTSTDI 180  
Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQVSTRSQHTOPTPEPSTAPSTS 240  
Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQVSTRSQHTOPTPEPSTAPSTS 240  
Qy 241 FLLPMGPPPPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282  
Db 241 FLLPMGPPPAE-----GSTGDFALPVGLIIVGVVNCVIMTQVKKP- 291  
Qy 283 STCLREYYDQTAQMCCKSPG---QHAKVCTKTSDTVCDSCEDSTYTQLMNNVPECL 339  
Db 292 -LCLQREAKVPHLPADKARGTQGPQOHLITAPSSSSSLES----- 333  
Qy 340 SCGRSCSDQVETQACTREQNRICTCPGMYCALSKQEGCRLCAPLRCRCPGFCVARGPT 399  
Db 334 -----SASALDRRAPTRNQPO---APGVEAS-----GAGEARAST 365  
Qy 400 ETSDVCKPCAPGTFSTSTDI 491  
Db 366 GSSD--SSPGHGTVQVNTCIVNVCSDDHSSQSSQASSTMGD--TDSSPSES--PKDE 419  
Qy 460 HLP---QVSTRSQHTOPTPEPSTAPSTSFLPMG 491  
Db 420 QVPSKECAPRSQ--LETPTLLGSTEEKPLPG 452

## RESULT 5

US-08-406-824A-2  
; Sequence 2, Application US/08406824A  
; Patent No. 6541610  
; GENERAL INFORMATION:  
; APPLICANT: SMITH, Craig A.  
; TITLE OF INVENTION: TUMOR NECROSIS FACTOR-ALPHA AND BETA-RECEPTORS  
; FILE REFERENCE: A-71592  
; CURRENT APPLICATION NUMBER: US/08/406,824A  
; PRIOR FILING DATE: 1995-03-20  
; PRIOR APPLICATION NUMBER: US 08/255,849  
; PRIOR FILING DATE: 1994-06-08  
; PRIOR APPLICATION NUMBER: US 07/860,710  
; PRIOR FILING DATE: 1992-03-30  
; PRIOR APPLICATION NUMBER: US 07/523,635  
; PRIOR FILING DATE: 1990-05-10  
; PRIOR APPLICATION NUMBER: US 07/421,417  
; PRIOR FILING DATE: 1989-10-13  
; PRIOR APPLICATION NUMBER: US 07/405,370  
; PRIOR FILING DATE: 1989-09-11  
; PRIOR APPLICATION NUMBER: US 07/403,241  
; PRIOR FILING DATE: 1989-09-05  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 2  
; LENGTH: 461  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-08-406-824A-2

Query Match 50.9%; Score 1427.5; DB 4; Length 461;  
Best Local Similarity 58.6%; Pred. No. 4.4e-94;  
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;  
Qy 1 MAPVAVMAALAVGLELWAAHALPAQVFTPYAPEPGSTCLREYYDQTAQMCCKSPG 60  
Db 1 MAPVAVMAALAVGLELWAAHALPAQVFTPYAPEPGSTCLREYYDQTAQMCCKSPG 60  
Qy 61 QHAKVCTKTSDTVCDSCEDSTYTQLMNNVPECLSCGRSCSDQVETQACTREQNRICT 120  
Db 61 QHAKVCTKTSDTVCDSCEDSTYTQLMNNVPECLSCGRSCSDQVETQACTREQNRICT 120  
Qy 121 RPYGMYCALSKQEGCRLCAPLRCRCPGFCVARGPTETSDVCKPCAPGTFSTSTDI 180  
Db 121 RPYGMYCALSKQEGCRLCAPLRCRCPGFCVARGPTETSDVCKPCAPGTFSTSTDI 180

Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQVSTRSQHTOPTPEPSTAPSTS 240  
Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQVSTRSQHTOPTPEPSTAPSTS 240  
Qy 241 FLLPMGPPPPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282  
Db 241 FLLPMGPPPAE-----GSTGDFALPVGLIIVGVVNCVIMTQVKKP- 291  
Qy 283 STCLREYYDQTAQMCCKSPG---QHAKVCTKTSDTVCDSCEDSTYTQLMNNVPECL 339  
Db 292 -LCLQREAKVPHLPADKARGTQGPQOHLITAPSSSSSLES----- 333  
Qy 340 SCGRSCSDQVETQACTREQNRICTCPGMYCALSKQEGCRLCAPLRCRCPGFCVARGPT 399  
Db 334 -----SASALDRRAPTRNQPO---APGVEAS-----GAGEARAST 365  
Qy 400 ETSDVCKPCAPGTFSTSTDI 491  
Db 366 GSSD--SSPGHGTVQVNTCIVNVCSDDHSSQSSQASSTMGD--TDSSPSES--PKDE 419  
Qy 460 HLP---QVSTRSQHTOPTPEPSTAPSTSFLPMG 491  
Db 420 QVPSKECAPRSQ--LETPTLLGSTEEKPLPG 452

## RESULT 6

US-09-800-909-2  
; Sequence 2, Application US/09800909  
; Patent No. 6555111  
; GENERAL INFORMATION:  
; APPLICANT: WALLACH, David  
; APPLICANT: BIGDA, Jacek  
; APPLICANT: BELETSKY, Igor  
; APPLICANT: METT, Igor  
; APPLICANT: ENGELMANN, Hartmut  
; TITLE OF INVENTION: TNF INHIBITORS  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: BROWDY AND NEIMARK  
; STREET: 419 Seventh Street, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20004  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA: /09/800,909  
; APPLICATION NUMBER: US/09/800,909  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/476,862  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: IL 94039  
; FILING DATE: 06-APR-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: IL 91229  
; FILING DATE: 06-AUG-1989  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: IL 90339  
; FILING DATE: 18-MAY-1989  
; ATTORNEY/AGENT INFORMATION:  
; NAME: BROWDY, Roger L.  
; REGISTRATION NUMBER: 25,618  
; REFERENCE/DOCKET NUMBER: WALLACH-12A  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-628-5197  
; TELEFAX: 202-737-3528  
; INFORMATION FOR SEQ ID NO: 2:

```

; SEQUENCE CHARACTERISTICS:
; LENGTH: 461 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-800-909-2

Query Match      50.9%; Score 1427.5; DB 4; Length 461;
Best Local Similarity 58.6%; Pred. No. 4.4e-94;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

QY 1 MAPVAVMAALAVGLLELWAAAHALPAQVAFTPYAPPEGSTCRLREYYDQTAQMCCSKSPG 60
DB 1 MAPVAVMAALAVGLLELWAAAHALPAQVAFTPYAPPEGSTCRLREYYDQTAQMCCSKSPG 60
QY 61 QHAKVFTKTSDDTVCDSCEDSTYTQLNNWVPECLSCGSRCSDDQVETQACTREQNRICTC 120
DB 61 QHAKVFTKTSDDTVCDSCEDSTYTQLNNWVPECLSCGSRCSDDQVETQACTREQNRICTC 120
QY 121 RPYGWCALSKQEGCRLCAPLRCRPGFVGVARPGTETSDVVKCPACPGTFNTTSSDIDR 180
DB 121 RPYGWCALSKQEGCRLCAPLRCRPGFVGVARPGTETSDVVKCPACPGTFNTTSSDIDR 180
QY 181 PHQICNVVAIPGNASMDVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240
DB 181 PHQICNVVAIPGNASMDVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240
QY 241 FLPLPMGSPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
DB 241 FLPLPMGSPPAE-----GSTGDFALPVGLIVGTALGLLIIVGVNCVIMTQVKKP- 291
QY 283 STCLREYYDQTAQMCCSKSPG---QHAKVFTKTSDDTVCDSCEDSTYTQLNNWVPECL 339
DB 292 -LCLQREAKVPHLPADKARTQPEQOHLITAPSSSSSLES----- 333
QY 340 SCGSRCSDDQVETQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVGVARPGT 399
DB 334 -----SASALDRRAPTRNQPQ---APGVEAS-----GAGEARAST 365
QY 400 ETSDDVVKCPACPGTFNTTSSDIDCRPHQICNVVAIPGNASMDVCTSTSPTRSMAPGAV 459
DB 366 GSSD---SSPGGHGTQVNVTCIVNVCSSDSSQASSTMGD--TDSSPSES--PKDE 419
QY 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPLMG 491
DB 420 QVPFSKEECAFRSQ--LETPETLLGSTEEKPLPLG 452

RESULT 7
US-09-758-124-2
; Sequence 2, Application US/09758124
; Patent No. 6572852
; GENERAL INFORMATION:
; APPLICANT: SMITH, Craig A.
; APPLICANT: GOODWIN, Raymond G.
; APPLICANT: BECKMANN, M. Patricia
; TITLE OF INVENTION: TUMOR NECROSIS FACTOR-ALPHA AND -BETA RECEPTORS
; FILE REFERENCE: A7895
; CURRENT APPLICATION NUMBER: US/09/758,124
; CURRENT FILING DATE: 2001-01-12
; PRIOR APPLICATION NUMBER: 08/953,268
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 08/555,629
; PRIOR FILING DATE: 1995-11-09
; PRIOR APPLICATION NUMBER: 08/468,453
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/038,765
; PRIOR FILING DATE: 1993-03-13
; PRIOR APPLICATION NUMBER: 07/523,635
; PRIOR FILING DATE: 1990-05-10
; PRIOR APPLICATION NUMBER: 07/421,417
; PRIOR FILING DATE: 1989-10-13
; PRIOR APPLICATION NUMBER: 07/405,370

; SEQUENCE CHARACTERISTICS:
; LENGTH: 461 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-800-909-2

Query Match      50.9%; Score 1427.5; DB 4; Length 461;
Best Local Similarity 58.6%; Pred. No. 4.4e-94;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

QY 1 MAPVAVMAALAVGLLELWAAAHALPAQVAFTPYAPPEGSTCRLREYYDQTAQMCCSKSPG 60
DB 1 MAPVAVMAALAVGLLELWAAAHALPAQVAFTPYAPPEGSTCRLREYYDQTAQMCCSKSPG 60
QY 61 QHAKVFTKTSDDTVCDSCEDSTYTQLNNWVPECLSCGSRCSDDQVETQACTREQNRICTC 120
DB 61 QHAKVFTKTSDDTVCDSCEDSTYTQLNNWVPECLSCGSRCSDDQVETQACTREQNRICTC 120
QY 121 RPYGWCALSKQEGCRLCAPLRCRPGFVGVARPGTETSDVVKCPACPGTFNTTSSDIDR 180
DB 121 RPYGWCALSKQEGCRLCAPLRCRPGFVGVARPGTETSDVVKCPACPGTFNTTSSDIDR 180
QY 181 PHQICNVVAIPGNASMDVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240
DB 181 PHQICNVVAIPGNASMDVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240
QY 241 FLPLPMGSPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
DB 241 FLPLPMGSPPAE-----GSTGDFALPVGLIVGTALGLLIIVGVNCVIMTQVKKP- 291
QY 283 STCLREYYDQTAQMCCSKSPG---QHAKVFTKTSDDTVCDSCEDSTYTQLNNWVPECL 339
DB 292 -LCLQREAKVPHLPADKARTQPEQOHLITAPSSSSSLES----- 333
QY 340 SCGSRCSDDQVETQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVGVARPGT 399
DB 334 -----SASALDRRAPTRNQPQ---APGVEAS-----GAGEARAST 365
QY 400 ETSDDVVKCPACPGTFNTTSSDIDCRPHQICNVVAIPGNASMDVCTSTSPTRSMAPGAV 459
DB 366 GSSD---SSPGGHGTQVNVTCIVNVCSSDSSQASSTMGD--TDSSPSES--PKDE 419
QY 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPLMG 491
DB 420 QVPFSKEECAFRSQ--LETPETLLGSTEEKPLPLG 452

RESULT 8
US-09-800-908-3
; Sequence 3, Application US/09800908
; Patent No. 6602993
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSKY, Igor
; APPLICANT: METT, Igor
; TITLE OF INVENTION: TNF LIGANDS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
```

```
;
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/800,908
; FILING DATE: 08-Mar-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/477,347
; FILING DATE: <Unknown>
; APPLICATION NUMBER: IL 106271
; FILING DATE: 08-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Townsend, G. Kevin
; REGISTRATION NUMBER: 34,033
; REFERENCE/DOCKET NUMBER: WALLACH=10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 461 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-800-908-3

Query Match      50.9%; Score 1427.5; DB 4; Length 461;
Best Local Similarity 58.6%; Pred. No. 4.4e-94;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy      1 MAPVAVMAALAVGLELWAAAHALPAQVAFYAPYAPPGSTCLRREYDQTAQMCCSKCSPG 60
Db      1 MAPVAVMAALAVGLELWAAAHALPAQVAFYAPYAPPGSTCLRREYDQTAQMCCSKCSPG 60

Qy      61 QHAKVFCTKSDTVCDSCEDSTYTQLMNNWPECLSCGSCSSDDQVETQACTREQNRICTC 120
Db      61 QHAKVFCTKSDTVCDSCEDSTYTQLMNNWPECLSCGSCSSDDQVETQACTREQNRICTC 120

Qy      121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTNTSTDICR 180
Db      121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTNTSTDICR 180

Qy      181 PHQICNVVAIPGNASMDVCTSTPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240
Db      181 PHQICNVVAIPGNASMDVCTSTPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240

Qy      241 FLLPMGPSPAPAE-----GSTGDFALPVGLIVGVTALGLLIIGVNVCMVIMTVKKKP- 291
Db      241 FLLPMGPSPAPAE-----GSTGDFALPVGLIVGVTALGLLIIGVNVCMVIMTVKKKP- 291

Qy      283 STCLRREYDQTAQMCCSKCSPG---QHAKVFCTKSDTVCDSCEDSTYTQLMNNWPECL 339
Db      283 STCLRREYDQTAQMCCSKCSPG---QHAKVFCTKSDTVCDSCEDSTYTQLMNNWPECL 339

Qy      292 -LCLQREAKVPHLPADKARGTQGPQQHLLITAPSSSSSLES----- 333
Db      292 -LCLQREAKVPHLPADKARGTQGPQQHLLITAPSSSSSLES----- 333

Qy      340 SCGSCSSDDQVETQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVGARPGT 399
Db      340 SCGSCSSDDQVETQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVGARPGT 399

Qy      334 -----SASALDRAPTRNQFQ-----APGVEAS-----GAGEARAST 365
Db      334 -----SASALDRAPTRNQFQ-----APGVEAS-----GAGEARAST 365

Qy      400 ETSDDVCKPCAPGTFSTNTSTDICRPHQICNVVAIPGNASMDVCTSTPTRSMAPGAV 459
Db      400 ETSDDVCKPCAPGTFSTNTSTDICRPHQICNVVAIPGNASMDVCTSTPTRSMAPGAV 459

Qy      366 GSSD--SSPGHGTVQNVVTCIVNVCSDDHSSQCSQASSTMGD--TDSSPSES--PKDE 419
Db      366 GSSD--SSPGHGTVQNVVTCIVNVCSDDHSSQCSQASSTMGD--TDSSPSES--PKDE 419

Qy      460 HLP---QPVSTRSQHTOPTPEPSTAPSTSFLPLMG 491
Db      460 HLP---QPVSTRSQHTOPTPEPSTAPSTSFLPLMG 491

Qy      420 QVPFSKECAFRSQ--LETPTLLGSTEKPLPLG 452
Db      420 QVPFSKECAFRSQ--LETPTLLGSTEKPLPLG 452

RESULT 10
5395760-2
; Patent No. 5395760
; APPLICANT: SMITH, CRAIG A.; GOODWIN, RAYMOND G.; BECKMANN,
; M. PATRICIA
; TITLE OF INVENTION: DNA ENCODING TUMOR NECROSIS FACTOR-a AND
; B-RECEPTORS
; NUMBER OF SEQUENCES: 17
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/523,635
; FILING DATE: 10-MAY-1990

; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6019
; LENGTH: 461
; TYPE: PRT
; ORGANISM: Human
; US-09-949-016-6019
```

\_\_\_\_\_

```
Db 31 MAPVAVWAALAVGLLEWAAAHALPAQVAFTPYAPEPGSTCRLREYYDQTQAMCCSKCPG 90
Qy 61 QHAKVCTKTSDDTVCDSCEDSTYTQLMNNVPECLSCGSRCSDDQVETQACTREQNRICTC 120
Db 91 QHAKVCTKTSDDTVCDSCEDSTYTQLMNNVPECLSCGSRCSDDQVETQACTREQNRICTC 150
Qy 121 RFGWYCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 180
Db 151 RFGWYCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 210
Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240
Db 211 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 270
Qy 241 FLLPMGSPPPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
Db 271 FLLPMGSPPPAE-----GSTGDFALPVGLIVGTALGLLLIIGVNVNCVIMTQVKKKP- 321
Qy 283 STCRLREYYDQTQAMCCSKCPG---QHAKVCTKTSDDTVCDSCEDSTYTQLMNNVPECL 339
Db 322 -LCLOREAKVPHLPADKARGTQGEQOHLITAPSSSSSLES----- 363
Qy 340 SCGSRCSDDQVETQACTREQNRICTCRPGWYCALSKQEGCRLCAPLRCRPGFVGARPGT 399
Db 364 -----SASALDRRAPTRNQPQ---APGVEAS-----GAGEARAST 395
Qy 400 ETSDDVCKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459
Db 396 GSSD--SSPGHGTVQNVTCIVNVCSSSDHSSQCSASSTMGD--TDSSPSES--PKDE 449
Qy 460 HLP---QPVSTRSQHTOPTPEPSTAPSTSFLPLMG 491
Db 450 QVPFSKECAPRSQ--LETPTLLGSTEEKPLPLG 482
```

## RESULT 13

```
US-09-042-785A-7
; Sequence 7, Application US/09042785A
; Patent No. 6194151
; GENERAL INFORMATION:
; APPLICANT: Busfield, Samantha J
; TITLE OF INVENTION: NOVEL MOLECULES OF THE TNF RECEPTOR SUPERFAMILY
; TITLE OF INVENTION: AND USES THEREOF
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/042.785A
; FILING DATE: 17-MAR-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/938,896
; FILING DATE: 26-SEP-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragoras, Amy E
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: MEI-001CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)742-4214
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 461 amino acids
; TYPE: amino acid
```

```
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-09-042-785A-7
```

```
Query Match 50.7%; Score 1421.5; DB 3; Length 461;
Best Local Similarity 58.4%; Pred. No. 1.2e-93;
Matches 301; Conservative 30; Mismatches 97; Indels 87; Gaps 12;
```

```
Qy 1 MAPVAVWAALAVGLLEWAAAHALPAQVAFTPYAPEPGSTCRLREYYDQTQAMCCSKCPG 60
Db 1 MAPVAVWAALAVGLLEWAAAHALPAQVAFTPYAPEPGSTCRLREYYDQTQAMCCSKCPG 60
Qy 61 QHAKVCTKTSDDTVCDSCEDSTYTQLMNNVPECLSCGSRCSDDQVETQACTREQNRICTC 120
Db 61 QHAKVCTKTSDDTVCDSCEDSTYTQLMNNVPECLSCGSRCSDDQVETQACTREQNRICTC 120
Qy 121 RFGWYCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 180
Db 121 RFGWYCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 180
Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240
Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240
Qy 241 FLLPMGSPPPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
Db 241 FLLPMGSPPPAE-----GSTGDFALPVGLIVGTALGLLLIIGVNVNCVIMTQVKKKP- 291
Qy 283 STCRLREYYDQTQAMCCSKCPG---QHAKVCTKTSDDTVCDSCEDSTYTQLMNNVPECL 339
Db 292 -LCLOREAKVPHLPADKARGTQGEQOHLITAPSSSSSLES----- 333
Qy 340 SCGSRCSDDQVETQACTREQNRICTCRPGWYCALSKQEGCRLCAPLRCRPGFVGARPGT 399
Db 334 -----SASALDRRAPTRNQPQ---APGVEAS-----GAGEARAST 365
Qy 400 ETSDDVCKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459
Db 366 GSSD--SSPGHGTVQNVTCIVNVCSSSDHSSQCSASSTMGD--TDSSPSES--PKDE 419
Qy 460 HLP---QPVSTRSQHTOPTPEPSTAPSTSFLPLMG 491
Db 420 QVPFSKECAPRSQ--LETPTLLGSTEEKPLPLG 452
```

## RESULT 14

```
US-09-006-353A-4
; Sequence 4, Application US/09006353A
; Patent No. 6261801
; GENERAL INFORMATION:
; APPLICANT: WEI, YING-FEI
; APPLICANT: YU, GUO-LIANG
; APPLICANT: GENTZ, REINER
; APPLICANT: RUBEN, STEVEN
; TITLE OF INVENTION: TUMOR NECROSIS FACTOR RECEPTOR 5
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HUMAN GENOME SCIENCES, INC.
; STREET: 9410 KEY WEST AVENUE
; CITY: ROCKVILLE
; STATE: MD
; COUNTRY: US
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/006.353A
; FILING DATE:
; CLASSIFICATION: 435
```



ATTORNEY/AGENT INFORMATION:  
NAME: BROOKES, ANDERS A  
REGISTRATION NUMBER: 36,373  
REFERENCE/DOCKET NUMBER: PF341  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (301) 309-8504  
TELEFAX: (301) 309-8512  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 461 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-006-353A-4

Query Match 50.7%; Score 1421.5; DB 3; Length 461;  
Best Local Similarity 58.4%; Pred. No. 1.2e-93;  
Matches 301; Conservative 30; Mismatches 97; Indels 87; Gaps 12;

Qy 1 MAPVAVMAALAVGLELWAAAHALPAQVAFYAPYAPPGSTCLRLREYDQTAQMCCSKSPG 60  
|  
Db 1 MAPVAVMAALAVGLELWAAAHALPAQVAFYAPYAPPGSTCLRLREYDQTAQMCCSKSPG 60  
|  
Qy 61 QHAKVFCTKSDTVCDSCEDSTYQLNNWVPECLSCGSRCSDDOVTQACTREQNRICTC 120  
|  
Db 61 QHAKVFCTKSDTVCDSCEDSTYQLNNWVPECLSCGSRCSDDOVTQACTREQNRICTC 120  
|  
Qy 121 RPYWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVCKPCAPGTFSTSTSDICR 180  
|  
Db 121 RPYWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVCKPCAPGTFSTSTSDICR 180  
|  
Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240  
|  
Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240  
|  
Qy 241 FLLPMGSPPARGGGGGGGGGGSDPAQ-----GSTGDFALPVGLIVGVTALGILLIIGVVNCVIMTQVKKKP- 282  
|  
Db 241 FLLPMGSPPAE-----GSTGDFALPVGLIVGVTALGILLIIGVVNCVIMTQVKKKP- 291  
|  
Qy 283 STCLRLREYDQTAQMCCSKSPG---QHAKVFCTKSDTVCDSCEDSTYQLNNWVPECL 339  
|  
Db 292 -LCLOREAKVPHLPADKARGTQGPQQHLLITAPSSSSSLES----- 333  
|  
Qy 340 SCGSRCSDDOVTQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVARPGT 399  
|  
Db 334 -----SASALDRAPTNPQ-----APGVEAS-----GAGEARAST 365  
|  
Qy 400 ETSADVCKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459  
|  
Db 366 GSSD--SSPGHGTVNVTCIVNVCSHSSQCSQASSTMGD--TDSFSES--PKDE 419  
|  
Qy 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPMG 491  
|  
Db 420 QVPFSKEECAFRSQ--LETPTLLGSTEKPLPLG 452

RESULT 15  
US-09-573-986-4  
Sequence 4, Application US/09573986  
Patent No. 6455040  
GENERAL INFORMATION:  
APPLICANT: Wei, Ying-Fei  
APPLICANT: Ni, Jian  
APPLICANT: Gentz, Reiner  
APPLICANT: Ruben, Steven  
TITLE OF INVENTION: Tumor Necrosis Factor Receptor 5  
FILE REFERENCE: 1488.128004  
CURRENT APPLICATION NUMBER: US/09/573,986  
CURRENT FILING DATE: 2000-05-18  
NUMBER OF SEQ ID NOS: 27  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO 4

LENGTH: 461  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-573-986-4

Query Match 50.7%; Score 1421.5; DB 4; Length 461;  
Best Local Similarity 58.4%; Pred. No. 1.2e-93;  
Matches 301; Conservative 30; Mismatches 97; Indels 87; Gaps 12;

Qy 1 MAPVAVMAALAVGLELWAAAHALPAQVAFYAPYAPPGSTCLRLREYDQTAQMCCSKSPG 60  
|  
Db 1 MAPVAVMAALAVGLELWAAAHALPAQVAFYAPYAPPGSTCLRLREYDQTAQMCCSKSPG 60  
|  
Qy 61 QHAKVFCTKSDTVCDSCEDSTYQLNNWVPECLSCGSRCSDDOVTQACTREQNRICTC 120  
|  
Db 61 QHAKVFCTKSDTVCDSCEDSTYQLNNWVPECLSCGSRCSDDOVTQACTREQNRICTC 120  
|  
Qy 121 RPYWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVCKPCAPGTFSTSTSDICR 180  
|  
Db 121 RPYWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVCKPCAPGTFSTSTSDICR 180  
|  
Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240  
|  
Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240  
|  
Qy 241 FLLPMGSPPARGGGGGGGGGGSDPAQ-----GSTGDFALPVGLIVGVTALGILLIIGVVNCVIMTQVKKKP- 282  
|  
Db 241 FLLPMGSPPAE-----GSTGDFALPVGLIVGVTALGILLIIGVVNCVIMTQVKKKP- 291  
|  
Qy 283 STCLRLREYDQTAQMCCSKSPG---QHAKVFCTKSDTVCDSCEDSTYQLNNWVPECL 339  
|  
Db 292 -LCLOREAKVPHLPADKARGTQGPQQHLLITAPSSSSSLES----- 333  
|  
Qy 340 SCGSRCSDDOVTQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVARPGT 399  
|  
Db 334 -----SASALDRAPTNPQ-----APGVEAS-----GAGEARAST 365  
|  
Qy 400 ETSADVCKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459  
|  
Db 366 GSSD--SSPGHGTVNVTCIVNVCSHSSQCSQASSTMGD--TDSFSES--PKDE 419  
|  
Qy 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPMG 491  
|  
Db 420 QVPFSKEECAFRSQ--LETPTLLGSTEKPLPLG 452

Search completed: June 2, 2005, 20:33:09  
Job time : 27 secs

Age Blank (uspto)

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 4, 2005, 02:58:53 ; Search time 277 Seconds  
(without alignments)  
8896.147 Million cell updates/sec

Title: US-09-285-531A-1  
Perfect score: 1506  
Sequence: 1 atggcgccgctgcgctg.....ctgaaggagcactggctag 1506

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Issued Patents NA:\*
- 1: /cgn2\_6/ptodata/1/ina/5A COMB.seq.\*
  - 2: /cgn2\_6/ptodata/1/ina/5B COMB.seq.\*
  - 3: /cgn2\_6/ptodata/1/ina/6A COMB.seq.\*
  - 4: /cgn2\_6/ptodata/1/ina/6B COMB.seq.\*
  - 5: /cgn2\_6/ptodata/1/ina/PCTRUS COMB.seq.\*
  - 6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	754.8	50.1	1557	1	US-08-385-229-3
2	754.8	50.1	1557	4	US-09-579-845-2
3	754.8	50.1	1641	1	US-08-385-229-1
4	754.8	50.1	1641	2	US-08-650-000-1
5	754.8	50.1	1641	4	US-08-406-824A-1
6	754.8	50.1	1641	4	US-09-758-124-1
7	754.8	50.1	1641	6	5395760-1
8	754.8	50.1	1641	6	5395760-1
9	754.8	50.1	2224	3	US-08-477-347-2
10	754.8	50.1	2224	3	US-08-476-862-1
11	754.8	50.1	2224	4	US-09-800-309-1
12	754.8	50.1	2224	4	US-09-800-308-2
13	754.8	50.1	3677	4	US-09-949-016-1969
14	754.8	50.1	3683	3	US-08-444-634-3
15	754.8	50.1	3683	4	US-09-968-455-1
16	754.8	50.1	3683	4	US-09-949-016-148
17	699.4	46.4	705	3	US-09-580-235-7
18	699.4	46.4	705	3	US-09-580-181-7
19	699.4	46.4	705	3	US-09-102-530-7
20	697.8	46.3	705	3	US-09-580-235-1
21	697.8	46.3	705	3	US-09-580-235-3
22	697.8	46.3	705	3	US-09-580-181-1
23	697.8	46.3	705	3	US-09-580-181-3
24	697.8	46.3	705	3	US-09-102-530-1
25	697.8	46.3	705	3	US-09-102-530-3
26	696.2	46.2	705	3	US-09-326-394-3
27	696.2	46.2	705	3	US-09-580-235-5

Sequence 5, Appli  
Sequence 5, Appli  
Sequence 1219, Ap  
Sequence 12, Appl  
Sequence 12, Appl  
Sequence 11, Appl  
Sequence 10, Appl  
Sequence 3, Appli  
Patent No. 5395760  
Patent No. 5395760  
Sequence 6, Appli  
Sequence 13, Appl  
Sequence 11890, A  
Sequence 13711, A  
Sequence 18, Appl  
Sequence 1, Appli  
Sequence 1, Appli

ALIGNMENTS

RESULT 1  
US-08-385-229-3  
; Sequence 3, Application US/08385229  
; Patent No. 5605690  
; GENERAL INFORMATION:  
; APPLICANT: Jacobs, Cindy A.  
; APPLICANT: Smith, Craig A.  
; TITLE OF INVENTION: Method of Treating TNF-Dependent  
; TITLE OF INVENTION: Inflammation Using Tumor Necrosis  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Immunex Corporation  
; STREET: 51 University Street  
; CITY: Seattle  
; STATE: Washington  
; COUNTRY: U.S.A.  
; ZIP: 98101  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/385,229  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/07/946,236  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Wright, Christopher L.  
; REGISTRATION NUMBER: 31,680  
; REFERENCE/DOCKET NUMBER: 2503  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 587-0430  
; TELEFAX: (206) 587-0606  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1557 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: CDNA  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; IMMEDIATE SOURCE:  
; CLONE: TNFR/Fc Fusion Protein  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 1..1557



	US-08-385-229-1	
	; Sequence 1, Application US/08385229	
	; Patent No. 5605690	
	; GENERAL INFORMATION:	
	; APPLICANT: Jacobs, Cindy A.	
	; APPLICANT: Smith, Craig A.	
	; TITLE OF INVENTION: Method of Treating TNF-Dependent	
	; TITLE OF INVENTION: Inflammation Using Tumor Necrosis Factor Antagonists	
	; NUMBER OF SEQUENCES: 5	
	; CORRESPONDENCE ADDRESS:	
	; ADDRESSEE: Immunex Corporation	
	; STREET: 51 University Street	
	; CITY: Seattle	
	; STATE: Washington	
	; COUNTRY: U.S.A.	
	; ZIP: 98101	
	; COMPUTER READABLE FORM:	
	; MEDIUM TYPE: Floppy disk	
	; COMPUTER: IBM PC compatible	
	; OPERATING SYSTEM: PC-DOS/MS-DOS	
	; SOFTWARE: PatentIn Release #1.0, Version #1.25	
	; CURRENT APPLICATION DATA:	
	; APPLICATION NUMBER: US/08/385,229	
	; FILING DATE:	
	; CLASSIFICATION: 435	
	; PRIOR APPLICATION DATA:	
	; APPLICATION NUMBER: US/07/946,236	
	; FILING DATE:	
	; ATTORNEY/AGENT INFORMATION:	
	; NAME: Wight, Christopher L.	
	; REGISTRATION NUMBER: 31,680	
	; REFERENCE/DOCKET NUMBER: 2503	
	; TELECOMMUNICATION INFORMATION:	
	; TELEPHONE: (206) 587-0430	
	; TELEFAX: (206) 587-0606	
	; INFORMATION FOR SEQ ID NO: 1:	
	; SEQUENCE CHARACTERISTICS:	
	; LENGTH: 1641 base pairs	
	; TYPE: nucleic acid	
	; STRANDEDNESS: single	
	; TOPOLOGY: linear	
	; MOLECULE TYPE: cDNA	
	; HYPOTHETICAL: NO	
	; ANTI-SENSE: NO	
	; ORIGINAL SOURCE:	
	; ORGANISM: Homo sapiens	
	; CELL TYPE: Fibroblast	
	; CELL LINE: WI-26 VA4	
	; IMMEDIATE SOURCE:	
	; LIBRARY: WI-26 VA4	
	; CLONE: Clone 1	
	; FEATURE:	
	; NAME/KEY: CDS	
	; LOCATION: 88..1473	
	; FEATURE:	
	; NAME/KEY: mat_peptide	
	; LOCATION: 154..1470	
	; FEATURE:	
	; NAME/KEY: sig_peptide	
	; LOCATION: 88..153	
	US-08-385-229-1	
	Query Match 50.1%; Score 754.8; DB 1; Length 1641;	
	Best Local Similarity 99.7%; Pred. No. 3.9e-183;	
	Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	
Qy	1 ATGGCGCCGCTCGCGCTTGGGCGCGCTCGGACTCGAGCTGTGGGCTGTGGGCTCGCGC 60	
Dd	88 ATGGCGCCGCTCGCGCTTGGGCGCGCTCGGACTCGAGCTGTGGGCTGTGGGCTCGCGC 147	
Qy	61 CACGCCTTGCCGCCCGAGTTGAGTCATTACACCTACGCCCCCGGAGCCCGGAGCACATGC 120	
Dd	148 CAGCCTTGCCGCCCGAGTTGAGTCATTACACCTACGCCCCCGGAGCCCGGAGCACATGC 207	



Query Match	50.1%	Score	754.8;	DB	4;	Length	16	Gaps	0;
Best Local Similarity	99.7%;	Pred.	No. 3.9e-183;						
Matches	756;	Conservative	0;	Mismatches	2;	Indels	3	CGCGCG	60
QY	1	ATGGCGCCGTCGCGCTCTGGCGCGCGCTGGCGCTGGACTGGATGGCTTCGCGCG	147						
Db	88	ATGGCGCCGTCGCGCTCTGGCGCGCGCTGGCGCTGGACTGCCCGGGAGCATATGC	120						
QY	61	CAGCGCTTCGCCGCCAGGTGGCATTTACACCTACCGGAGCCGGGAGCATATGC	207						
Db	148	CAGCGCTTCGCCGCCAGGTGGCATTTACACCTATCGAGCAAAATGCTCGCGGGC	180						
QY	121	CGGCTCAGAGATATATAGACAGACAGCTCAGTGGTGTGCTGCAGCAAAATGCTCGCGGGC	267						
Db	208	CGGCTCAGAGATATATAGACAGACAGCTGGAGACACCGTGTGACTCTCTGTGAGAC	240						
QY	181	CAACATGCAAAAGTCTTCGTACCAAGTCCCTCGGACACCGTGTGACTCTCTGTGAGAC	327						
Db	268	CAACATGCAAAAGTCTTCGTATACCGTGGTTCCTCGGAGTGTGAGCTGGCTCCCGCTGT	300						
QY	241	AGCACATACACCCAGCTCTGGTGGGTTCCTCGGAGTGTGAGCTGGCTTCGGCTGT	387						
Db	328	AGCACATACACCCAGCTCAACTGGGTTCCTCGGAGTGTGAGCTGGCTTCGGCTGT	360						
QY	301	AGCTCTGACACAGGTGACTGAAGCTGCACTCGGGAACAGAACCGCATCTGCACCTGC	447						
Db	388	AGCTCTGACCACTGAAACTCAAGCCCTGCACTCGGGAACAGAACCGCATCTGCACCTGC	447						

QY 361 AGGCCGGCTGCTACTGCGCTGAGCAAGCAGAGGGGTGCGCGCTGCGCGCGCTG 420  
Db |||||  
QY 448 AGGCCGGCTGCTACTGCGCTGAGCAAGCAGAGGGGTGCGCGCTGCGCGCGCTG 507  
Db |||||  
QY 421 CGCAAGTCCCGCGGGCTTGGGGTGGCCAGAGCCAGGAATGAAACATCAGAGTGTG 480  
Db |||||  
QY 508 CGCAAGTCCCGCGGGCTTGGGGTGGCCAGAGCCAGGAATGAAACATCAGAGTGTG 567  
Db |||||  
QY 481 TGAAGCCCTGTGCGCGCGGGGAGCTTCCAAACAGACTTCATCAGGATATTGTCAGG 540  
Db |||||  
QY 568 TGAAGCCCTGTGCGCGCGGGGAGCTTCCAAACAGACTTCATCAGGATATTGTCAGG 627  
Db |||||  
QY 541 CCCACACAGATCTGTAACGTGGTGGCCATCCTGGGAATGCAAGCATGGATGCACTGC 600  
Db |||||  
QY 628 CCCACACAGATCTGTAACGTGGTGGCCATCCTGGGAATGCAAGCATGGATGCACTGC 687  
Db |||||  
QY 601 ACCTCCAGTCCCCCAGGATGATGGCCAGGGGAGTACACTTACCCAGCCAGTGC 660  
Db |||||  
QY 688 ACCTCCAGTCCCCCAGGATGATGGCCAGGGGAGTACACTTACCCAGCCAGTGC 747  
Db |||||  
QY 661 TCCACACAGATCCCAACACACAGCAGCAACTCCAGAACCCAGACTGCTCCAGCACTCC 720  
Db |||||  
QY 748 TCCACACAGATCCCAACACACAGCAGCAACTCCAGAACCCAGACTGCTCCAGCACTCC 807  
Db |||||  
QY 721 TTCTGTCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG 758  
Db |||||  
QY 808 TTCTGTCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG 845  
Db |||||

## RESULT 7

5395760-1  
; Patent No. 5395760  
; APPLICANT: SMITH, CRAIG A.; GOODWIN, RAYMOND G.; BECKMANN,  
; M. PATRICIA  
; TITLE OF INVENTION: DNA ENCODING TUMOR NECROSIS FACTOR-a AND

; B-RECEPTORS

; NUMBER OF SEQUENCES: 17

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/07/523,635

; FILING DATE: 10-MAY-1990

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 421,417

; FILING DATE: 13-OCT-1989

; APPLICATION NUMBER: 405,370

; FILING DATE: 11-SEP-1989

; APPLICATION NUMBER: 403,241

; FILING DATE: 05-SEP-1989

; SEQ ID NO:1:

; LENGTH: 1641

5395760-1

Query Match 50.1%; Score 754.8; DB 6; Length 1641;

Best Local Similarity 99.7%; Pred. No. 3.9e-183;

Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ATGGCGCCGCTGCGCGCTTGGCGCGCTGCGCGCTGCGACTGGAGCTCTGGGCTGCGGCG 60  
Db |||||  
QY 88 ATGGCGCCGCTGCGCGCTTGGCGCGCTGCGCGCTGCGACTGGAGCTCTGGGCTGCGGCG 147  
Db |||||  
QY 61 CAGCGCTTGGCGCGCCAGGTGCATTTACACCTACGCCCGCGGAGCCGGGAGCACATGC 120  
Db |||||  
QY 148 CAGCGCTTGGCGCGCCAGGTGCATTTACACCTACGCCCGCGGAGCCGGGAGCACATGC 207  
Db |||||  
QY 121 CGGCTCAGAGAATACTATGACAGACAGCTCAGATGTCTCAGCAAAATGTCGCGCGGCG 180  
Db |||||  
QY 208 CGGCTCAGAGAATACTATGACAGACAGCTCAGATGTCTCAGCAAAATGTCGCGCGGCG 267  
Db |||||  
QY 191 CAAATGCAAAAGTCTTGTACCAAGACCTCGGACACCGTGTGTGACTCTGTGAGGAC 240  
Db |||||  
QY 268 CAAATGCAAAAGTCTTGTACCAAGACCTCGGACACCGTGTGTGACTCTGTGAGGAC 327  
Db |||||  
QY 241 AGCAGATACCCAGCTCTGGAATGGGTTCCCGAGTGTGAGCTGTGGGTCTCCGCGTGT 300  
Db |||||

Db 328 AGCAGATACACCCAGCTC. 3ACTGGGTCCCGAGTGTGAGCTGTGGCTCCCGCTGT 387  
QY 301 AGCTCTGACAGGTGGAAATCTC |||||CTGCACTCGGGAACAGAACCCGATCTGCACTGC 360  
Db |||||  
QY 361 AGGCCCGGCTGTAAGTGGCGCTGAGCA |||||CACTCGGGAACAGAACCGCATCTGCACCTGC 447  
Db |||||  
QY 448 AGGCCCGGCTGTAAGTGGCGCTGAGCAAGC |||||TGAAGGCTGCGGCTGTGCGCGCGCTG 420  
Db |||||  
QY 421 CGCAAGTCCCGCGGGCTTGGCGTGGCCAGAG |||||TGGTCCGCGCTGTGCGCGCGCTG 507  
Db |||||  
QY 508 CGCAAGTCCCGCGGGCTTGGCGTGGCCAGACCA |||||CTGAAACATCAGAGTGTG 480  
Db |||||  
QY 481 TGAAGCCCTGTGCGCGCGGGGAGCTTCTCNAACAGACTTAAACATCAGAGTGTG 567  
Db |||||  
QY 568 TGAAGCCCTGTGCGCGCGGGGAGCTTCTCNAACAGACTTAAACATCAGAGTGTG 540  
Db |||||  
QY 541 CCCACACAGATCTGTAACGTGGTGGCCATCCTGGGAATGCAAGCATGGATGCACTGC 627  
Db |||||  
QY 628 CCCACACAGATCTGTAACGTGGTGGCCATCCTGGGAATGCAAGCATGGATGCACTGC 600  
Db |||||  
QY 601 ACCTCCAGTCCCCCAGGATGATGGCCAGGGGAGTACACTTACCCAGCCAGTGC 687  
Db |||||  
QY 688 ACCTCCAGTCCCCCAGGATGATGGCCAGGGGAGTACACTTACCCAGCCAGTGC 560  
Db |||||  
QY 661 TCCACACAGATCCCAACACACAGCAGCAACTCCAGAACCCAGACTGCTCCAGCACTTC 600  
Db |||||  
QY 748 TCCACACAGATCCCAACACACAGCAGCAACTCCAGAACCCAGACTGCTCCAGCACTTC 687  
Db |||||  
QY 721 TTCTGTCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG 758  
Db |||||  
QY 808 TTCTGTCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG 845  
Db |||||

## RESULT 8

5395760-1

; Patent No. 5395760

; APPLICANT: SMITH, CRAIG A.; GOODWIN, RAYMOND G.; BECKMANN,

; M. PATRICIA

; TITLE OF INVENTION: DNA ENCODING TUMOR NECROSIS FACTOR-a AND

; B-RECEPTORS

; NUMBER OF SEQUENCES: 17

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/07/523,635

; FILING DATE: 10-MAY-1990

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 421,417

; FILING DATE: 13-OCT-1989

; APPLICATION NUMBER: 405,370

; FILING DATE: 11-SEP-1989

; APPLICATION NUMBER: 403,241

; FILING DATE: 05-SEP-1989

; SEQ ID NO:1:

; LENGTH: 1641

5395760-1

Query Match 50.1%; Score 754.8; DB 6; Length 1641;

Best Local Similarity 99.7%; Pred. No. 3.9e-183;

Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ATGGCGCCGCTGCGCGCTTGGCGCGCTGCGCGCTGCGACTGGAGCTCTGGGCTGCGGCG 60  
Db |||||  
QY 88 ATGGCGCCGCTGCGCGCTTGGCGCGCTGCGCGCTGCGACTGGAGCTCTGGGCTGCGGCG 147  
Db |||||  
QY 61 CAGCGCTTGGCGCGCCAGGTGCATTTACACCTACGCCCGCGGAGCCGGGAGCACATGC 120  
Db |||||  
QY 148 CAGCGCTTGGCGCGCCAGGTGCATTTACACCTACGCCCGCGGAGCCGGGAGCACATGC 207  
Db |||||  
QY 121 CGGCTCAGAGAATACTATGACAGACAGCTCAGATGTCTCAGCAAAATGTCGCGCGGCG 180  
Db |||||  
QY 208 CGGCTCAGAGAATACTATGACAGACAGCTCAGATGTCTCAGCAAAATGTCGCGCGGCG 267  
Db |||||



181 CAACATGCAAAAGTCTTCTGTACCAAGACCTCGACACACCGTGTGTGACTCTCTGTGAGGAC 240  
268 CAACATGCAAAAGTCTTCTGTACCAAGACCTCGACACACCGTGTGTGACTCTCTGTGAGGAC 327  
241 AGCATAACACCCAGCTCTGGAAGTGGGTTCCCGAGTGTGAGCTGTGGCTCCCGCTGT 300  
328 AGCATAACACCCAGCTCTGGAAGTGGGTTCCCGAGTGTGAGCTGTGGCTCCCGCTGT 387  
301 AGCTCTGACCAAGTGGAACTCAAGCCCTGCACTCGGGAACAGAACCCGATCTGCACCTGC 360  
388 AGCTCTGACCAAGTGGAACTCAAGCCCTGCACTCGGGAACAGAACCCGATCTGCACCTGC 447  
361 AGGCCCCGGCTGTACTGCGCGCTGAGCAAGCAGAGGGGTGCGGCTGTGGCGCCCGCTG 420  
448 AGGCCCCGGCTGTACTGCGCGCTGAGCAAGCAGAGGGGTGCGGCTGTGGCGCCCGCTG 507  
421 CGCAAGTGGCCCGCGGCTTGGCGTGGCCAGACCCAGAACTGAAACATCAGAGCTGGTG 480  
508 CGCAAGTGGCCCGCGGCTTGGCGTGGCCAGACCCAGAACTGAAACATCAGAGCTGGTG 567  
481 TGCAAGCCCTGTGCCCCGGGACGTTCTCCAAACAGCACTTCATCCAGCGATATTGCGAGG 540  
568 TGCAAGCCCTGTGCCCCGGGACGTTCTCCAAACAGCACTTCATCCAGCGATATTGCGAGG 627  
541 CCCACACAGATCTGTAACGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCAAGTCTGC 600  
628 CCCACACAGATCTGTAACGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCAAGTCTGC 687  
601 AGCTCCAGCTCCCGCCCGGAGTATGGCCCGGAGGAGTATGGCCCGGAGGAGTATGGCCCGGAGG 660  
688 AGCTCCAGCTCCCGCCCGGAGTATGGCCCGGAGGAGTATGGCCCGGAGGAGTATGGCCCGGAGG 747  
661 TCCACACAGATCCCAACACAGCAGCACTCCAGAACCCAGCACTGTCTCAAGCACCTCC 720  
748 TCCACACAGATCCCAACACAGCAGCACTCCAGAACCCAGCACTGTCTCAAGCACCTCC 807  
721 TTCTGTCTCCCAATGGGCCCGCCAGCCCGCCAGTGTAGAGG 758  
808 TTCTGTCTCCCAATGGGCCCGCCAGCCCGCCAGTGTAGAGG 845

RESULT 9

US-08-477-347-2  
; Sequence 2, Application US/08477347  
; Patent No. 6232446  
; GENERAL INFORMATION:  
; APPLICANT: WALLACH, David  
; APPLICANT: BIGDA, Jacek  
; APPLICANT: BELETSKY, Igor  
; APPLICANT: METT, Igor  
; TITLE OF INVENTION: TNF LIGANDS  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: BROWDY AND NEIMARK  
; STREET: 419 Seventh Street, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20004  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/477,347  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/115,685  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: IL 106271

; FILING DATE: 08-JUL-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Townsend, G. Kevin  
; REGISTRATION NUMBER: 34,033  
; REFERENCE/DOCKET NUMBER: WALLACH-10  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-628-5197  
; TELEFAX: 202-737-3528  
; TELEX: 248633  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2224 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 90..1472  
; US-08-477-347-2

Query Match 50.1%; Score 754.8; DB 3; Length 2224;  
Best Local Similarity 99.7%; Pred. No. 4.2e-103;  
Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 1 ATGGCGCCGCTCGCGCTCTGGCGCGCTGGCGCGCTGGCGCTGGCGCTGGCGCTGGCGCG 60  
Db 90 ATGGCGCCGCTCGCGCTCTGGCGCGCTGGCGCGCTGGCGCTGGCGCTGGCGCTGGCGCG 149  
Qy 61 CAGCCTTGGCGCCGCGCGCTGGCGCTGGCGCTGGCGCTGGCGCTGGCGCTGGCGCTGGCG 120  
Db 150 CAGCCTTGGCGCCGCGCGCTGGCGCTGGCGCTGGCGCTGGCGCTGGCGCTGGCGCTGGCG 209  
Qy 121 CGGCTCAGAGAACTATGACACAGAGCTCAGATGTGCTGACAGAAATGCTCCCGCGGC 180  
Db 210 CGGCTCAGAGAACTATGACACAGAGCTCAGATGTGCTGACAGAAATGCTCCCGCGGC 269  
Qy 181 CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGTGACTCTCTGTGAGGAC 240  
Db 270 CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGTGACTCTCTGTGAGGAC 329  
Qy 241 AGCATAACACCGAGCTCTGGAATCTGGGTTCCGAGAGTGTGAGCTGTGGCTCTCCGCTGT 300  
Db 330 AGCATAACACCGAGCTCTGGAATCTGGGTTCCGAGAGTGTGAGCTGTGGCTCTCCGCTGT 389  
Qy 301 AGCTCTGACCAAGTGGAACTCAAGCCTGCACTCGGGAACAGAACCCGATCTGCACCTGC 360  
Db 390 AGCTCTGACCAAGTGGAACTCAAGCCTGCACTCGGGAACAGAACCCGATCTGCACCTGC 449  
Qy 361 AGGCCCCGGCTGTACTGCGCGCTGAGCAAGCAGAGGGGTGCGGCTGTGCGCGCCGCTG 420  
Db 450 AGGCCCCGGCTGTACTGCGCGCTGAGCAAGCAGAGGGGTGCGGCTGTGCGCGCCGCTG 509  
Qy 421 CGCAAGTGGCGCCCGGCTTGGCGTGGCCAGACCGAGAACTGAAACATCAGAGCTGGTG 480  
Db 510 CGCAAGTGGCGCCCGGCTTGGCGTGGCCAGACCGAGAACTGAAACATCAGAGCTGGTG 569  
Qy 481 TGCAAGCCCTGTGCCCCGGGAGCTTCTCCAAACAGCACTTCATCCAGCGATATTGCGAGG 540  
Db 570 TGCAAGCCCTGTGCCCCGGGAGCTTCTCCAAACAGCACTTCATCCAGCGATATTGCGAGG 629  
Qy 541 CCCACACAGATCTGTAACGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCAAGTCTGC 600  
Db 630 CCCACACAGATCTGTAACGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCAAGTCTGC 689  
Qy 601 AGCTCCAGCTCCCGCCAGAGTATGGCCCCAGGGGAGTACACTTACCCCGCCAGCTGC 660  
Db 690 AGCTCCAGCTCCCGCCAGAGTATGGCCCCAGGGGAGTACACTTACCCCGCCAGCTGC 749  
Qy 661 TCCACACAGATCCCAACACAGCAGCACTCCAGAACCCAGCACTGTCTCAAGCACCTCC 720  
Db 750 TCCACACAGATCCCAACACAGCAGCACTCCAGAACCCAGCACTGTCTCAAGCACCTCC 809



Query Match 50.1%; Score 754.8; DB 4; Length 2224;  
Best Local Similarity 99.7%; Pred. No. 4.2e-183;



US-09-368-433-1  
; Sequence 1, Application US/09968455  
; Patent No. 6673908

Qy	601	ACGTCCACGTC	CCCCACCCG	GAGTATG	GGCCCCAG	GGGAGTAC	ACTTACCC	CAGCCAGTG	660	
Db	690	ACGTCCACGTC	CCCCACCCG	GAGTATG	GGCCCCAG	GGGAGTAC	ACTTACCC	CAGCCAGTG	749	
Qy	661	TCCACACGATC	CCCAACAC	ACGACG	CCCAACTC	CAGAACCC	CAGCACTG	CTCCAAGC	ACCTCC	720
Db	750	TCCACACGATC	CCCAACAC	ACGACG	CCCAACTC	CAGAACCC	CAGCACTG	CTCCAAGC	ACCTCC	809
Qy	721	TTCTGTCTCC	CAATGGG	CCCCAG	CCCCCAG	CTTAGAGG				758
Db	810	TTCTGTCTCC	CAATGGG	CCCCAG	CCCCCAG	CTTAGAGG				847

Search completed: June 4, 2005, 17:00:26  
Job time : 279 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 4, 2005, 11:52:44 ; Search time 954 Seconds  
(without alignments)  
9704.422 Million cell updates/sec

Title: US-09-285-531A-1

Perfect score: 1506

Sequence: 1 atggcgcccgctgcgctgtg.....ctgaaggagcactggctag 1506

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 5706582 seqs, 3073711274 residues

Total number of hits satisfying chosen parameters: 11413164

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:\*

- 1: /cgn2\_6/ptodata/1/pubpna/US07\_PUBCOMB.seq:\*
- 2: /cgn2\_6/ptodata/1/pubpna/PCT\_NEW\_PUB.seq:\*
- 3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq:\*
- 4: /cgn2\_6/ptodata/1/pubpna/US06\_PUBCOMB.seq:\*
- 5: /cgn2\_6/ptodata/1/pubpna/US07\_NEW\_PUB.seq:\*
- 6: /cgn2\_6/ptodata/1/pubpna/PCTUS\_PUBCOMB.seq:\*
- 7: /cgn2\_6/ptodata/1/pubpna/US08\_NEW\_PUB.seq:\*
- 8: /cgn2\_6/ptodata/1/pubpna/US08\_PUBCOMB.seq:\*
- 9: /cgn2\_6/ptodata/1/pubpna/US09A\_PUBCOMB.seq:\*
- 10: /cgn2\_6/ptodata/1/pubpna/US09B\_PUBCOMB.seq:\*
- 11: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq:\*
- 12: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq:\*
- 13: /cgn2\_6/ptodata/1/pubpna/US10A\_PUBCOMB.seq:\*
- 14: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq:\*
- 15: /cgn2\_6/ptodata/1/pubpna/US10C\_PUBCOMB.seq:\*
- 16: /cgn2\_6/ptodata/1/pubpna/US10D\_PUBCOMB.seq:\*
- 17: /cgn2\_6/ptodata/1/pubpna/US10E\_PUBCOMB.seq:\*
- 18: /cgn2\_6/ptodata/1/pubpna/US10F\_PUBCOMB.seq:\*
- 19: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq:\*
- 20: /cgn2\_6/ptodata/1/pubpna/US11\_NEW\_PUB.seq:\*
- 21: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq:\*
- 22: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1381	91.7	2163	16	US-10-363-427-7
2	1029.4	68.4	1980	16	US-10-363-427-11
3	754.8	50.1	1386	19	US-10-775-180-14
4	754.8	50.1	1386	19	US-10-775-180-17
5	754.8	50.1	1470	17	US-10-637-864-5
6	754.8	50.1	1471	17	US-10-411-037-31
7	754.8	50.1	1471	17	US-10-411-026-31
8	754.8	50.1	1471	17	US-10-410-962-31
9	754.8	50.1	1471	17	US-10-411-049-31
10	754.8	50.1	1471	18	US-10-410-930-31
11	754.8	50.1	1471	18	US-10-410-997-31
					Sequence 7, Appli
					Sequence 11, Appl
					Sequence 14, Appl
					Sequence 17, Appl
					Sequence 5, Appli
					Sequence 31, Appl
					Sequence 31, Appl
					Sequence 31, Appl
					Sequence 31, Appl
					Sequence 31, Appl
					Sequence 31, Appl

12	754.8	50.1	1471	18	US-10-411-012-31	Sequence 31, Appl
13	754.8	50.1	1471	18	US-10-287-994-31	Sequence 31, Appl
14	754.8	50.1	1471	18	US-10-410-913-31	Sequence 31, Appl
15	754.8	50.1	1471	19	US-10-410-980-31	Sequence 31, Appl
16	754.8	50.1	1471	19	US-10-410-897-31	Sequence 31, Appl
17	754.8	50.1	1471	19	US-10-492-261-31	Sequence 31, Appl
18	754.8	50.1	1473	16	US-10-363-427-3	Sequence 2, Appli
19	754.8	50.1	1557	15	US-10-313-852-2	Sequence 2, Appli
20	754.8	50.1	1557	15	US-10-314-033-2	Sequence 2, Appli
21	754.8	50.1	1641	9	US-09-758-124-1	Sequence 1, Appli
22	754.8	50.1	1641	14	US-10-252-408-1	Sequence 1, Appli
23	754.8	50.1	1641	16	US-10-420-785-1	Sequence 1, Appli
24	754.8	50.1	2224	9	US-09-800-909-1	Sequence 1, Appli
25	754.8	50.1	2224	9	US-09-800-908-2	Sequence 2, Appli
26	754.8	50.1	2224	17	US-10-423-927-1	Sequence 1, Appli
27	754.8	50.1	2224	18	US-10-632-929-2	Sequence 2, Appli
28	754.8	50.1	3683	9	US-09-954-456-1187	Sequence 1187, Ap
29	754.8	50.1	3683	10	US-09-902-176A-49	Sequence 49, Appl
30	754.8	50.1	3683	15	US-10-101-510-22	Sequence 22, Appl
31	754.8	50.1	3683	17	US-10-172-118-555	Sequence 555, App
32	754.8	50.1	3683	17	US-10-342-887-555	Sequence 555, App
33	754.8	50.1	3683	18	US-10-476-021-3	Sequence 3, Appli
34	754.8	50.1	3683	18	US-10-370-715B-111	Sequence 111, App
35	754.8	50.1	3683	19	US-10-843-641A-4214	Sequence 4214, Ap
36	753.2	50.0	3683	10	US-09-902-176A-51	Sequence 51, Appl
37	751.6	49.9	3683	10	US-09-902-176A-53	Sequence 53, Appl
38	699.4	46.4	705	9	US-09-102-530-7	Sequence 7, Appli
39	699.4	46.4	705	14	US-10-243-230-7	Sequence 7, Appli
40	697.8	46.3	705	9	US-09-102-530-1	Sequence 1, Appli
41	697.8	46.3	705	9	US-09-102-530-3	Sequence 3, Appli
42	697.8	46.3	705	14	US-10-243-230-1	Sequence 1, Appli
43	697.8	46.3	705	14	US-10-243-230-3	Sequence 3, Appli
44	696.2	46.2	705	9	US-09-102-530-5	Sequence 5, Appli
45	696.2	46.2	705	9	US-09-907-263-3	Sequence 3, Appli

#### ALIGNMENTS

RESULT 1  
US-10-363-427-7  
; Sequence 7, Application US/10363427  
; Publication No. US20030195338A1  
; GENERAL INFORMATION:  
; APPLICANT: MedGen Inc.  
; APPLICANT: CHUNG, Yong Hoon  
; APPLICANT: HAN, Ji Woong  
; APPLICANT: LEE, Hye Ja  
; APPLICANT: CHOI, Eun Yong  
; APPLICANT: KIM, Jin Mi  
; APPLICANT: YIM, Soo Bin  
; TITLE OF INVENTION: Concatametric Immunoadhesion  
; FILE REFERENCE:  
; CURRENT APPLICATION NUMBER: US/10/363,427  
; CURRENT FILING DATE: 2003-02-28  
; NUMBER OF SEQ ID NOS: 52  
; SOFTWARE: KopatentIn 1.71  
; SEQ ID NO 7  
; LENGTH: 2163  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(2160)  
; OTHER INFORMATION: TNFR2-TNFR2-IgG  
; FEATURE:  
; NAME/KEY: C region  
; LOCATION: (1462)..(2163)  
; OTHER INFORMATION: Hinge, CH2, CH3 region  
; FEATURE:  
; NAME/KEY: misc signal  
; LOCATION: (511)..(519)  
; OTHER INFORMATION: N-linked glycosylation site

```
; FEATURE:
; NAME/KEY: misc_signal
; LOCATION: (577)..(585)
; OTHER INFORMATION: N-linked glycosylation site
; FEATURE:
; NAME/KEY: misc_signal
; LOCATION: (769)..(777)
; OTHER INFORMATION: N-linked glycosylation site
; FEATURE:
; NAME/KEY: misc_signal
; LOCATION: (1201)..(1209)
; OTHER INFORMATION: N-linked glycosylation site
; FEATURE:
; NAME/KEY: misc_signal
; LOCATION: (1267)..(1275)
; OTHER INFORMATION: N-linked glycosylation site
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: (1)..(15)
; OTHER INFORMATION: PCR primer SEQ ID : 29 binding site
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: (761)..(795)
; OTHER INFORMATION: PCR primer SEQ ID : 35(antisense) binding site
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: (741)..(768)
; OTHER INFORMATION: PCR primer SEQ ID : 34 binding site
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: (1444)..(1480)
; OTHER INFORMATION: PCR primer SEQ ID : 30(antisense) binding site
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: (1444)..(1480)
; OTHER INFORMATION: PCR primer SEQ ID : 31 binding site
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: (2141)..(2163)
; OTHER INFORMATION: PCR primer SEQ ID : 28(antisense) binding site
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: (1)..(66)
; OTHER INFORMATION: signal peptide
US-10-363-427-7

Query Match          91.7%; Score 1381; DB 16; Length 2163;
Best Local Similarity 96.0%; Pred. No. 0;
Matches 1445; Conservative 0; Mismatches 15; Indels 45; Gaps 1;

Qy      1  ATGGGCGCGCTGCGCGTCTGGGCGCGCGTGGCGCTGGAGCTCGGAGCTTGGGCTGCGGCG 60
Db      1  ATGGGCGCGTGGCGGCTGGGCGCGCGTGGCGCTGGAGCTCGGAGCTTGGGCTGCGGCG 60

Qy      61  CACGCTTGGCGCGCGCGAGTGGCATTTACCCCTACGCGCCGCGAGCCCGGAGCACATGC 120
Db      61  CACGCTTGGCGCGCGCGAGTGGCATTTACCCCTACGCGCCGCGAGCCCGGAGCACATGC 120

Qy      121  CCGCTCAGAGAATACTATGACACAGACAGCTCAGATGTGCTGCAGCAATGCTCGCCGGGC 180
Db      121  CCGCTCAGAGAATACTATGACACAGACAGCTCAGATGTGCTGCAGCAATGCTCGCCGGGC 180

Qy      181  CAACATGCAAAAGTCTTGTGTACCAAGACCTCGGACACCGTGTGTGATCTCTGTGAGGAC 240
Db      181  CAACATGCAAAAGTCTTGTGTACCAAGACCTCGGACACCGTGTGTGATCTCTGTGAGGAC 240

Qy      241  AGCATACACCCAGCTCTGGAATCGGTTCCCGAGTGTGAGTGGCTCCCGCTGT 300
Db      241  AGCATACACCCAGCTCTGGAATCGGTTCCCGAGTGTGAGTGGCTCCCGCTGT 300

Qy      301  AGCTCTGACCAAGTGGAACTCAAGCTGTGACTCGGGAACAGAACCCGATCTGCACCTGC 360
Db      301  AGCTCTGACCAAGTGGAACTCAAGCTGTGACTCGGGAACAGAACCCGATCTGCACCTGC 360

361  AGGCCGCGCTGGTACTGGCGCTGAGCAAGCAGAGGGGTGCGGCTGTGCGCGCGCTG 420
361  AGGCCGCGCTGGTACTGGCGCTGAGCAAGCAGAGGGGTGCGGCTGTGCGCGCGCTG 420
421  CGCAAGTGC CGCGCGCGCTTCCGCGTGGCCAGACAGCAAGCACTGAAACATCAGAGTGTG 480
421  CGCAAGTGC CGCGCGCGCTTCCGCGTGGCCAGACAGCAAGCACTGAAACATCAGAGTGTG 480
481  TGCAAGCCCTGTGCCCGGGGAGCGTTCTCCAACACGACTTCAATCAGCGATATTGTCAGG 540
481  TGCAAGCCCTGTGCCCGGGGAGCGTTCTCCAACACGACTTCAATCAGCGATATTGTCAGG 540
541  CCCCACAGATCTGTAAGCTGGTGGCCATCCCTGGGAATGCAAGCATGGATGTCAGTCTGC 600
541  CCCCACAGATCTGTAAGCTGGTGGCCATCCCTGGGAATGCAAGCATGGATGTCAGTCTGC 600
601  ACCTCCAGCTCCCGCAGTATGGCCCGGAGTATGGCCCGGAGGAGTACACTTACCCCGCAGTGC 660
601  ACCTCCAGCTCCCGCAGTATGGCCCGGAGTATGGCCCGGAGGAGTACACTTACCCCGCAGTGC 660
661  TCACACGATCCCAACACACGAGCCAACTCCAGAACCCAGCACTGTCTCCAAAGCACTTCC 720
661  TCACACGATCCCAACACACGAGCCAACTCCAGAACCCAGCACTGTCTCCAAAGCACTTCC 720
721  TTCTGTCTCCCAATGGGCGCGCGCGAGTGGGCGGCTTCCGGTGGCGGC 780
721  TTCTGTCTCCCAATGGGCGCGCGCGAGTGGGCGGCTTCCGGTGGCGGC----- 761
781  GGCTCGGCGGCGGTGGCTCGGATCCCGCGCGAGTGGCATTTACACCTACCGCCCGGAG 840
781  GGCTCGGCGGCGGTGGCTCGGATCCCGCGCGAGTGGCATTTACACCTACCGCCCGGAG 840
762  -----CGATCCAAACGCACTACACCTACCGCCCGGAG 795
841  CCGCGGAGCATGCCCGCTCAGAGAAATATATGACCCAGACAGTCTGAGTGTGTCAGC 900
796  CCGCGGAGCATGCCCGCTCAGAGAAATATATGACCCAGACAGTCTGAGTGTGTCAGC 855
901  AATGCTCGCGCGCGCAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGT 960
856  AATGCTCGCGCGCGCAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGT 915
961  GACTCTGTGAGGACAGACATACACCCAGCTCTGGAACCTGGGTTCCCGAGTGTGTCAGC 1020
916  GACTCTGTGAGGACAGACATACACCCAGCTCTGGAACCTGGGTTCCCGAGTGTGTCAGC 975
1021  TGTGGCTCCCGCTGTAGCTGTGACAGGTGGAATCTCAAGCTGTGCTCGGGAACAGAAC 1080
976  TGTGGCTCCCGCTGTAGCTGTGACAGGTGGAATCTCAAGCTGTGCTCGGGAACAGAAC 1035
1081  CGCATCTGCACCTGCAGGCGCGCTGTGCTGCGCTGAGCAAGCAGAGGGGTGCGCG 1140
1036  CGCATCTGCACCTGCAGGCGCGCTGTGCTGCGCTGAGCAAGCAGAGGGGTGCGCG 1095
1141  CTGTGCGCGCGCTGCAGAAAGTGC CGCGCGCTTCCGCGTGGCCAGACACAGGAACGAA 1200
1096  CTGTGCGCGCGCTGCAGAAAGTGC CGCGCGCTTCCGCGTGGCCAGACACAGGAACGAA 1155
1201  ACATCAGACGTGTGTGCAAGCCCTGTGCCCGGGGACGTTCTCCAAACAGCTTCATCC 1260
1156  ACATCAGACGTGTGTGCAAGCCCTGTGCCCGGGGACGTTCTCCAAACAGCTTCATCC 1215
1261  ACGGATATTTGCAGGCGCGCACAGATCTGTAAACGTGGTGGCCATCCCTGGGAATGCAAGC 1320
1216  ACGGATATTTGCAGGCGCGCACAGATCTGTAAACGTGGTGGCCATCCCTGGGAATGCAAGC 1275
1321  ATGATGACGTCTGCAGCTCCAGCTCCCGGAGTATGGCCCGGAGGAGGAGTACAC 1380
1276  ATGATGACGTCTGCAGCTCCAGCTCCCGGAGTATGGCCCGGAGGAGGAGTACAC 1335
1381  TTACCCAGCAGTGTGCAACGATCCCAACACGAGGCCAACTCCAGAACCCGACACT 1440
1336  TTACCCAGCAGTGTGCAACGATCCCAACACGAGGCCAACTCCAGAACCCGACACT 1395
```



[illegible]

## RESULT 2

```

US-10-363-427-11
; Sequence 11, Application US/10363427
; Publication No. US20030195338A1
; GENERAL INFORMATION:
; APPLICANT: MeDexGen Inc.
; APPLICANT: CHUNG, Yong Hoon
; APPLICANT: HAN, Ji Woong
; APPLICANT: LEE, Hye Ja
; APPLICANT: CHOI, Eun Yong
; APPLICANT: KIM, Jin Mi
; APPLICANT: YIM, Soo Bin
; TITLE OF INVENTION: Concatametric Immunoadhesion
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/363,427
; CURRENT FILING DATE: 2003-02-28
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: Kopatentin 1.71
; SEQ ID NO 11
; LENGTH: 1980
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1977)
; OTHER INFORMATION: mgTNFR2-TNFR2-IgG
; FEATURE:
; NAME/KEY: C region
; LOCATION: (1279)..(1980)
; OTHER INFORMATION: Hinge, CH2, CH3 region
; FEATURE:
; NAME/KEY: misc_signal
; LOCATION: (511)..(519)
; OTHER INFORMATION: N-linked glycosylation site
; FEATURE:
; NAME/KEY: misc_signal
; LOCATION: (577)..(585)
; OTHER INFORMATION: N-linked glycosylation site
; FEATURE:
; NAME/KEY: misc_signal
; LOCATION: (595)..(603)
; OTHER INFORMATION: N-linked glycosylation site
; FEATURE:
; NAME/KEY: misc_signal
; LOCATION: (616)..(624)
; OTHER INFORMATION: N-linked glycosylation site
; FEATURE:
; NAME/KEY: misc_signal
; LOCATION: (1018)..(1026)
; OTHER INFORMATION: N-linked glycosylation site
; FEATURE:
; NAME/KEY: misc_signal
; LOCATION: (1084)..(1092)
; OTHER INFORMATION: N-linked glycosylation site
; FEATURE:
; NAME/KEY: primer bind
; LOCATION: (1)..(15)
; OTHER INFORMATION: PCR primer SEQ ID : 29 binding site
; FEATURE:
; NAME/KEY: primer bind
; LOCATION: (586)..(627)
; OTHER INFORMATION: PCR primer SEQ ID : 39 (antisense) b
; FEATURE:
; NAME/KEY: primer bind

```

```

: LOCATION: (586)..(630)
: OTHER INFORMATION: PCR primer SEQ ID : 38 binding site
: FEATURE:
: NAME/KEY: primer_bind
: LOCATION: (1261)..(1296)
: OTHER INFORMATION: PCR primer SEQ ID : 30(antisense) binding site
: FEATURE:
: NAME/KEY: primer_bind
: LOCATION: (1261)..(1296)
: OTHER INFORMATION: PCR primer SEQ ID : 31 binding site
: FEATURE:
: NAME/KEY: primer_bind
: LOCATION: (1957)..(1980)
: OTHER INFORMATION: PCR primer SEQ ID : 28(antisense) binding site
: FEATURE:
: NAME/KEY: sig_peptide
: LOCATION: (1)..(66)
: OTHER INFORMATION: signal peptide
US-10-363-427-11

```

Query Match	68.4%;	Score 1029.4;	DB 16;	Length 1980;
Best Local Similarity	84.5%;	Pred. No. 3.4e-278;		
Matches 1271;	Conservative 0;	Mismatches 6;	Indels 228;	Gaps 1;

Qy	1	ATGGCGCCCGTTCGCGCTCTGGGCGCGCTGGCGCTCGGACTCGAGCTCTGGGCTCGGGCG	60
Db	1	ATGGCGCCCGTTCGCGCTCTGGGCGCGCTGGCGCTCGGACTCGAGCTCTGGGCTCGGGCG	60
Qy	61	CAGCCCTTGCCGCCCGCAGGTGGCATTTACACCTCAGCCCCCGAGAGCCGGGAGCATGC	120
Db	61	CAGCCCTTGCCGCCCGCAGGTGGCATTTACACCTCAGCCCCCGAGAGCCGGGAGCATGC	120
Qy	121	CGGCTCAGAGAACTATGACCACAGACAGTTCAGATGTGTCGACGAAATGCTCGCCGGGC	180
Db	121	CGGCTCAGAGAACTATGACCACAGACAGTTCAGATGTGTCGACGAAATGCTCGCCGGGC	180
Qy	181	CAACATGCAAAAGTCTTCTGTACCAAGACTCTGGACACCGTGTGTGACTCCTGTGAGGAC	240
Db	181	CAACATGCAAAAGTCTTCTGTACCAAGACTCTGGACACCGTGTGTGACTCCTGTGAGGAC	240
Qy	241	AGCACATACACCCAGCTCTGGAACTGGTTCGCGAGTGTGTGAGCTGTGGCTCCCGCTGT	300
Db	241	AGCACATACACCCAGCTCTGGAACTGGTTCGCGAGTGTGTGAGCTGTGGCTCCCGCTGT	300
Qy	301	AGCTCTGACAGGTGGAACTCAAGCCTGCATCTCGGGAACAGAACCGCATCTGCACCTGC	360
Db	301	AGCTCTGACAGGTGGAACTCAAGCCTGCATCTCGGGAACAGAACCGCATCTGCACCTGC	360
Qy	361	AGGCCGGCTGTGTACCTGCGCGTGTAGCAAGCAGGAGGGGTGCGCGTGTGCGCGCGCTG	420
Db	361	AGGCCGGCTGTGTACCTGCGCGTGTAGCAAGCAGGAGGGGTGCGCGTGTGCGCGCGCTG	420
Qy	421	CGCAAGTGC CGCCCGCGGCTTCGCGGTGGCCAGACCAAGGAATGAAACATCAGACGTGGTG	480
Db	421	CGCAAGTGC CGCCCGCGGCTTCGCGGTGGCCAGACCAAGGAATGAAACATCAGACGTGGTG	480
Qy	481	TGCAAGCCCTGTGCCCGCGGGAGTTCTCAACACAGCTTCATTCACAGGATATTGTCAGG	540
Db	481	TGCAAGCCCTGTGCCCGCGGGAGTTCTCAACACAGCTTCATTCACAGGATATTGTCAGG	540
Qy	541	CCCCACAGATCTGTAAAGTGTGGCCATCCCTGGGAATGCAAGCATGATGCAGTCTGC	600
Db	541	CCCCACAGATCTGTAAAGTGTGGCCATCCCTGGGAATGCAAGCATGATGCAGTCTGC	600
Qy	601	ACGTTCACGTCCCCACCCGGAGTATGGCCCCCAGGGGAGTACACTTACCCCGCCAGGTG	660
Db	601	ACGTTCACGTCCCCACCCGGAGTATGGCCCCCAGGGGAGTACACTTACCCCGCCAGGTG	660
Qy	661	TCCACACAGATCCCAACACACGAGCCAACTCCAGAACCCAGCACCTGCTCTCAAGCACCTCC	720
Db	661	TCCACACAGATCCCAACACACGAGCCAACTCCAGAACCCAGCACCTGCTCTCAAGCACCTCC	720
Qy	721	TTCTCTGCTCCATGGGCCCCAGCCGCCAGCTAGAGGTGGGGGGGTTTCGGGTGGCGCG	780
Db	721	TTCTCTGCTCCATGGGCCCCAGCCGCCAGCTAGAGGTGGGGGGGTTTCGGGTGGCGCG	780

Db 605 ----- 604  
QY 781 GGCTGGGGGGGGTGGCTCGGATCCCGCCAGAGTGGCATTACACCCCTACGCCCGGAG 840  
Db 605 -----CCCGGAG 612  
QY 841 CCCGGAGACATGCGGGCTCAGAGAACTATGACACAGACAGCTCAGATGTGCTGCAGC 900  
Db 613 CCCAACAGCATGCGGGCTCAGAGAACTATGACACAGACAGCTCAGATGTGCTGCAGC 672  
QY 901 AAATCTCGCGGGCAACATGCAAAAGTCTTGTGTACCAAGACTCGGACACCGTGTGT 960  
Db 673 AAATGCTCGCGGGCAACATGCAAAAGTCTTGTGTACCAAGACTCGGACACCGTGTGT 732  
QY 961 GACTCTGTGAGGACAGACATACACCCAGCTCTGGAACCTGGGTTCGAGTGTGAGC 1020  
Db 733 GACTCTGTGAGGACAGACATACACCCAGCTCTGGAACCTGGGTTCGAGTGTGAGC 792  
QY 1021 TGTGGCTCCGCTGTAGCTCTGACACAGTGGAACTCAAGCTGCACTCGGGAACAGAAC 1080  
Db 793 TGTGGCTCCGCTGTAGCTCTGACACAGTGGAACTCAAGCTGCACTCGGGAACAGAAC 852  
QY 1081 CGCATCTGCACCTGCAGGCGCGGTGTAAGTCTGAGCAAGCAGAGGGTGCAGG 1140  
Db 853 CGCATCTGCACCTGCAGGCGCGGTGTAAGTCTGAGCAAGCAGAGGGTGCAGG 912  
QY 1141 CTGTGCGCGCGCTGCGCAAGTGGCGCGCGCGCTTGGCGTGGCGAGACCAAGGAACAGAA 1200  
Db 913 CTGTGCGCGCGCTGCGCAAGTGGCGCGCGCGCTTGGCGTGGCGAGACCAAGGAACAGAA 972  
QY 1201 ACATCAGACGTGGTGTGCAAGCCCTGTGCGCGGGAGCTTCTCCAAACACACTTCATCC 1260  
Db 973 ACATCAGACGTGGTGTGCAAGCCCTGTGCGCGGGAGCTTCTCCAAACACACTTCATCC 1032  
QY 1261 ACGGATATTTGAGGCGCCACACAGATCTGAAGTGGTGGCATCCCTGGGAATGCAAGC 1320  
Db 1033 ACGGATATTTGAGGCGCCACACAGATCTGAAGTGGTGGCATCCCTGGGAATGCAAGC 1092  
QY 1321 ATGGATGAGTGTGCAAGTGTGCAAGTGTGCAAGTGTGCAAGTGTGCAAGTGTGCAAG 1380  
Db 1093 ATGGATGAGTGTGCAAGTGTGCAAGTGTGCAAGTGTGCAAGTGTGCAAGTGTGCAAG 1152  
QY 1381 TTACCCAGCCAGTGTGCAAGTGTGCAAGTGTGCAAGTGTGCAAGTGTGCAAGTGTGCAAG 1440  
Db 1153 TTACCCAGCCAGTGTGCAAGTGTGCAAGTGTGCAAGTGTGCAAGTGTGCAAGTGTGCAAG 1212  
QY 1441 GCTCCAGCACCTCTCTCTGCTCCCAATGGGCCCCAGCCCCCGCCAGCTGGAAGGAGCACT 1500  
Db 1213 GCTCCAGCACCTCTCTCTGCTCCCAATGGGCCCCAGCCCCCGCCAGCTGGAAGGAGCACT 1272  
QY 1501 GGCTA 1505  
Db 1273 GGCGA 1277

RESULT 3  
US-10-775-180-14  
; Sequence 14, Application US/10775180  
; Publication No. US20050054570A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen, Craig A.  
; TITLE OF INVENTION: Albumin Fusion Proteins  
; FILE REFERENCE: PF574  
; CURRENT APPLICATION NUMBER: US/10/775,180  
; CURRENT FILING DATE: 2004-02-11  
; PRIOR APPLICATION NUMBER: PCT/US02/40892  
; PRIOR FILING DATE: 2002-12-23  
; PRIOR APPLICATION NUMBER: 60/341,811  
; PRIOR FILING DATE: 2001-12-21  
; PRIOR APPLICATION NUMBER: 60/360,000  
; PRIOR FILING DATE: 2002-02-28

; PRIOR APPLICATION NUMBER: 60/378,950  
; PRIOR FILING DATE: 2002-05-10  
; PRIOR APPLICATION NUMBER: 60/398,008  
; PRIOR FILING DATE: 2002-07-24  
; PRIOR APPLICATION NUMBER: 60/411,355  
; PRIOR FILING DATE: 2002-09-18  
; PRIOR APPLICATION NUMBER: 60/414,984  
; PRIOR FILING DATE: 2002-10-02  
; PRIOR APPLICATION NUMBER: 60/417,611  
; PRIOR FILING DATE: 2002-10-11  
; PRIOR APPLICATION NUMBER: 60/420,246  
; PRIOR FILING DATE: 2002-10-23  
; PRIOR APPLICATION NUMBER: 60/423,623  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 858  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 14  
; LENGTH: 1386  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-775-180-14  
  
Query Match 50.1%; Score 754.8; DB 19; Length 1386;  
Best Local Similarity 99.7%; Pred. No. 2.5e-201;  
Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 1 ATGCGCGCGCTGCGCTGTGGCGCGCTGGCCCTCGGACTGGAGCTCTGGGCTGCGGCG 60  
Db 1 ATGCGCGCGCTGCGCTGTGGCGCGCTGGCCCTCGGACTGGAGCTCTGGGCTGCGGCG 60  
  
QY 61 CAGCCTTGGCGCGCGCGAGTGGGATTTACACCTTACGCCCGGAGCGCGGAGCACATGC 120  
Db 61 CAGCCTTGGCGCGCGCGAGTGGGATTTACACCTTACGCCCGGAGCGCGGAGCACATGC 120  
  
QY 121 CGGCTCAGAGAACTATGACACAGACAGCTCAGATGTGTGACAGAAATGCTCGCCGGGC 180  
Db 121 CGGCTCAGAGAACTATGACACAGACAGCTCAGATGTGTGACAGAAATGCTCGCCGGGC 180  
  
QY 181 CAACATCAAAAGTCTTCTGTACCAAGACTCGGACACCGTGTGTGACTCTCTGTGAGAC 240  
Db 181 CAACATCAAAAGTCTTCTGTACCAAGACTCGGACACCGTGTGTGACTCTCTGTGAGAC 240  
  
QY 241 AGCATATACACCCAGCTCTGGAACCTGGTTCGCGAGTGTGAGCTTGGGCTCCGCGTGT 300  
Db 241 AGCATATACACCCAGCTCTGGAACCTGGTTCGCGAGTGTGAGCTTGGGCTCCGCGTGT 300  
  
QY 301 AGCTCTGACAGGTGGAAACTCAAGCTTGCACTCGGAAACAGAACCGCATCTGCACCTGC 360  
Db 301 AGCTCTGACAGGTGGAAACTCAAGCTTGCACTCGGAAACAGAACCGCATCTGCACCTGC 360  
  
QY 361 AGGCGCGGCTGTTACTGCGCGCTGAGCAAGCAGAGGGGTGCGGCTGTGCGCGCGCTG 420  
Db 361 AGGCGCGGCTGTTACTGCGCGCTGAGCAAGCAGAGGGGTGCGGCTGTGCGCGCGCTG 420  
  
QY 421 CGCAAGTGGCGCGCGGCTTGGGCTGGCCAGACAGGAACTGAAACATCAGAGTGGTG 480  
Db 421 CGCAAGTGGCGCGCGGCTTGGGCTGGCCAGACAGGAACTGAAACATCAGAGTGGTG 480  
  
QY 481 TGCAAGCCCTGTGTCGCCCGGGGACGTTCTCCAAACAGACTTTCATCCAGGATTTTGCAGG 540  
Db 481 TGCAAGCCCTGTGTCGCCCGGGGACGTTCTCCAAACAGACTTTCATCCAGGATTTTGCAGG 540  
  
QY 541 CCCCAACAGTCTGTAACTGAGTGGGCGCATCCCTGGGAAATGCAAGCATGGATGCAAGTGTGC 600  
Db 541 CCCCAACAGTCTGTAACTGAGTGGGCGCATCCCTGGGAAATGCAAGCATGGATGCAAGTGTGC 600  
  
QY 601 ACGTCCAGCTCCCGACCGGAGTATGCGCCCGGCGAGTACACTTACCCAGCCAGTG 660  
Db 601 ACGTCCAGCTCCCGACCGGAGTATGCGCCCGGCGAGTATGCGCCCGGCGAGTACACTTACCCAGCCAGTG 660  
  
QY 661 TCCACAGCATCCCAACACAGCAGCAACTCCAGAACCCAGCACTGTCTCCAAAGCACCTCC 720  
Db 661 TCCACAGCATCCCAACACAGCAGCAACTCCAGAACCCAGCACTGTCTCCAAAGCACCTCC 720

Db 661 TCCACAGATCCCAACACACGACGCCAACTCCAGAACCCAGCACTGTCTCAAGCACCTCC 720  
Qy 721 TTCTGTCTCCCAATGGGCGCCAGCGCCCGCCAGCTAGAGG 758  
Db 721 TTCTGTCTCCCAATGGGCGCCAGCGCCCGCCAGCTAGAGG 758

RESULT 4  
US-10-775-180-17  
; Sequence 17, Application US/10775180  
; Publication No. US20050054570A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen, Craig A.  
; TITLE OF INVENTION: Albumin Fusion Proteins  
; FILE REFERENCE: PF574  
; CURRENT APPLICATION NUMBER: US/10/775,180  
; PRIORITY FILING DATE: 2004-02-11  
; PRIOR APPLICATION NUMBER: PCT/US02/40892  
; PRIOR FILING DATE: 2002-12-23  
; PRIOR APPLICATION NUMBER: 60/341,811  
; PRIOR FILING DATE: 2001-12-21  
; PRIOR APPLICATION NUMBER: 60/360,000  
; PRIOR FILING DATE: 2002-02-28  
; PRIOR APPLICATION NUMBER: 60/378,950  
; PRIOR FILING DATE: 2002-05-10  
; PRIOR APPLICATION NUMBER: 60/398,008  
; PRIOR FILING DATE: 2002-07-24  
; PRIOR APPLICATION NUMBER: 60/411,355  
; PRIOR FILING DATE: 2002-09-18  
; PRIOR APPLICATION NUMBER: 60/414,984  
; PRIOR FILING DATE: 2002-10-02  
; PRIOR APPLICATION NUMBER: 60/417,611  
; PRIOR FILING DATE: 2002-10-11  
; PRIOR APPLICATION NUMBER: 60/420,246  
; PRIOR FILING DATE: 2002-10-23  
; PRIOR APPLICATION NUMBER: 60/423,623  
; PRIOR FILING DATE: 2002-11-05  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 858  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 17  
; LENGTH: 1386  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-775-180-17

Query Match 50.1%; Score 754.8; DB 19; Length 1386;  
Best Local Similarity 99.7%; Pred. No. 2.5e-201;  
Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ATGGCGCCGTCGCGCTGGCGCGCGCTGGCGCGCGCTGGCGACTGGAGCTCTGGGCTGGCGG 60  
Db 1 ATGGCGCCGTCGCGCTGGCGCGCGCTGGCGCGCGCTGGCGACTGGAGCTCTGGGCTGGCGG 60

Qy 61 CAGCGCTTGGCGCCGCGCGCTGGCGCGCGCTGGCGCGCGCGCGCGAGCACATGC 120  
Db 61 CAGCGCTTGGCGCCGCGCGCTGGCGCGCGCTGGCGCGCGCGCGCGAGCACATGC 120

Qy 121 CGGCTCAGAGAACTATGACACAGACAGCTCAGATGTGCTGCAGCAAAATGCTCGCGCGGC 180  
Db 121 CGGCTCAGAGAACTATGACACAGACAGCTCAGATGTGCTGCAGCAAAATGCTCGCGCGGC 180

Qy 181 CAACATCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGTGACTCTCTGTGAGGAC 240  
Db 181 CAACATCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGTGACTCTCTGTGAGGAC 240

Qy 241 AGACATACACCCAGCTCTGGAATCGGTTCCGAGTGTGAGCTGTGGCTCCCGCTGT 300  
Db 241 AGACATACACCCAGCTCTGGAATCGGTTCCGAGTGTGAGCTGTGGCTCCCGCTGT 300

Qy 301 AGCTCTCACCAGGTGGAACTCAAGCCTGCACTCGGGAACAGAACCCGATCTGCACCTGC 360

Db 301 AGCTCTCACCAGGTGGAACTCAAGCCTGCACTCGGGAACAGAACCCGATCTGCACCTGC 360  
Qy 361 AGCGCCGCGCTGTACTCGCGCTGAGCAAGCAGAGAGGGGTGCGCGCTGTGTGCGCGCGCTG 420  
Db 361 AGCGCCGCGCTGTACTCGCGCTGAGCAAGCAGAGAGGGGTGCGCGCTGTGTGCGCGCGCTG 420

Qy 421 CGCAAGTGCCCGCCCGGCTTTCGGCGTGGCCAGACAGGAACTGAAACATCAGACGTGGTG 480  
Db 421 CGCAAGTGCCCGCCCGGCTTTCGGCGTGGCCAGACAGGAACTGAAACATCAGACGTGGTG 480

Qy 481 TGCAGCCCTGTGCGCCCGGAGCGTTCTCCAAACAGACTTCATCCAGGATATTTTCAGG 540  
Db 481 TGCAGCCCTGTGCGCCCGGAGCGTTCTCCAAACAGACTTCATCCAGGATATTTTCAGG 540

Qy 541 CCCACCAGATCTGTAACTGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTGTC 600  
Db 541 CCCACCAGATCTGTAACTGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTGTC 600

Qy 601 ACGTTCACGTCCTCCCAACCCCGAGTATGGCCCGCAGGGCAGTACACTTACCCAGCCAGTG 660  
Db 601 ACGTTCACGTCCTCCCAACCCCGAGTATGGCCCGCAGGGCAGTACACTTACCCAGCCAGTG 660

Qy 661 TCCACAGGATCCCAACACACAGCAGCCAACTCCAGAACCCAGCACTGTCTCCAGCACCTCC 720  
Db 661 TCCACAGGATCCCAACACACAGCAGCCAACTCCAGAACCCAGCACTGTCTCCAGCACCTCC 720

Qy 721 TTCTGTCTCCCAATGGGCGCCCGCCAGCTAGAGG 758  
Db 721 TTCTGTCTCCCAATGGGCGCCCGCCAGCTAGAGG 758

RESULT 5  
US-10-637-864-5  
; Sequence 5, Application US/10637864  
; Publication No. US2004008253A1  
; GENERAL INFORMATION:  
; APPLICANT: Viomed Co., Ltd.  
; TITLE OF INVENTION: Electro-Gene Therapy of Arthritis by Using an Expression Plasmid  
; TITLE OF INVENTION: Encoding the Soluble p75 Tumor Necrosis Factor Receptor-Fc Fusion  
; TITLE OF INVENTION: Protein  
; FILE REFERENCE: PCA20854/VML/US  
; CURRENT APPLICATION NUMBER: US/10/637,864  
; PRIOR FILING DATE: 2003-08-08  
; PRIOR APPLICATION NUMBER: US60/402,399  
; PRIOR FILING DATE: 2002-08-09  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: Kopatentin 1.71  
; SEQ ID NO 5  
; LENGTH: 1470  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: sTNFR:Fc fusion gene of soluble p75 TNFR and Fc portion of human  
US-10-637-864-5

Query Match 50.1%; Score 754.8; DB 17; Length 1470;  
Best Local Similarity 99.7%; Pred. No. 2.6e-201;  
Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ATGGCGCCGTCGCGCTGGCGCGCGCTGGCGCGCGCTGGCGACTGGAGCTCTGGGCTGGCGG 60  
Db 1 ATGGCGCCGTCGCGCTGGCGCGCGCTGGCGCGCGCTGGCGACTGGAGCTCTGGGCTGGCGG 60

Qy 61 CAGCGCTTGGCGCCGCGCGAGTGGCATTTACACCTAGCCCGCGAGCCCGGAGCACATGC 120  
Db 61 CAGCGCTTGGCGCCCGCGCGAGTGGCATTTACACCTAGCCCGCGAGCCCGGAGCACATGC 120

Qy 121 CGGCTCAGAGAACTATGACACAGACAGCTCAGATGTGCTGCAGCAAAATGCTCGCGCGGC 180  
Db 121 CGGCTCAGAGAACTATGACACAGACAGCTCAGATGTGCTGCAGCAAAATGCTCGCGCGGC 180

Qy 181 CAACATCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGTGACTCTCTGTGAGGAC 240

Db 181 CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGTGATCTCCTGTGAGGAC 240  
Qy 241 AGCATATACCCAGCTCTGGAACCTGGGTTCGAGTGTCTCCGAGTGTCTGAGCTGTGGCTCCGCGTGT 300  
Db 241 AGCATATACCCAGCTCTGGAACCTGGGTTCGAGTGTCTCCGAGTGTCTGAGCTGTGGCTCCGCGTGT 300  
Qy 301 AGCTCTGACCCAGGTGGAACCTCAAGCTTGCACCTCGGGAACAGAACCGCATCTGCACCTTGC 360  
Db 301 AGCTCTGACCCAGGTGGAACCTCAAGCTTGCACCTCGGGAACAGAACCGCATCTGCACCTTGC 360  
Qy 361 AGGCCCGCGCTGGTACTGCGCTGAGCAAGCAGAGAGGGTGCCTGGCTGTGCGCGCGCTG 420  
Db 361 AGGCCCGCGCTGGTACTGCGCTGAGCAAGCAGAGAGGGTGCCTGGCTGTGCGCGCGCTG 420  
Qy 421 CGCAAGTCCCGCGGGTTCGGCGTGGCCAGACAGGAACTGAAACATCAGACGTGGTG 480  
Db 421 CGCAAGTCCCGCGGGTTCGGCGTGGCCAGACAGGAACTGAAACATCAGACGTGGTG 480  
Qy 481 TGCAGGCTGTGCCCCGGGACGTTCTCCAAACACGACTTCCACCGATATTTGCAGG 540  
Db 481 TGCAGGCTGTGCCCCGGGACGTTCTCCAAACACGACTTCCACCGATATTTGCAGG 540  
Qy 541 CCCACACAGATCTGTAAAGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTTGC 600  
Db 541 CCCACACAGATCTGTAAAGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTTGC 600  
Qy 601 ACGTCCAGTCCCGCGGGTTCGGCGTGGCCAGTATGCCCCAGGGGCGAGTACACTTACCCAGCCAGTG 660  
Db 601 ACGTCCAGTCCCGCGGGTTCGGCGTGGCCAGTATGCCCCAGGGGCGAGTACACTTACCCAGCCAGTG 660  
Qy 661 TCCACACAGATCCCAACACACAGCAGCAACTCCAGAACCCAGCACTGTCTCCAAAGCACCTCC 720  
Db 661 TCCACACAGATCCCAACACACAGCAGCAACTCCAGAACCCAGCACTGTCTCCAAAGCACCTCC 720  
Qy 721 TTCTGTCTCCCAATGGGGCCCCAGCCCCCAGCTAGAGG 758  
Db 721 TTCTGTCTCCCAATGGGGCCCCAGCCCCCAGCTAGAGG 758

RESULT 6  
US-10-411-037-31  
; Sequence 31, Application US/10411037  
; Publication No. US20040043446A1  
; GENERAL INFORMATION:  
; APPLICANT: Neose Technologies, Inc.  
; APPLICANT: Defrees, Shawn  
; APPLICANT: Zopf, David  
; APPLICANT: Bayer, Robert  
; APPLICANT: Hakes, David  
; APPLICANT: Chen, Xi  
; APPLICANT: Bove, Caryn  
; TITLE OF INVENTION: ALPHA GALACTOSIDASE A: REMODELING AND GLYCOCONJUGATION OF ALPHA  
; FILE REFERENCE: GALACTOSIDASE A  
; CURRENT APPLICATION NUMBER: US/10/411,037  
; CURRENT FILING DATE: 2003-04-09  
; PRIOR APPLICATION NUMBER: US 60/328,523  
; PRIOR FILING DATE: 2001-10-10  
; PRIOR APPLICATION NUMBER: US 60/344,692  
; PRIOR FILING DATE: 2001-10-19  
; PRIOR APPLICATION NUMBER: US 60/387,292  
; PRIOR FILING DATE: 2002-06-07  
; PRIOR APPLICATION NUMBER: US 60/391,777  
; PRIOR FILING DATE: 2002-06-25  
; PRIOR APPLICATION NUMBER: US 60/396,594  
; PRIOR FILING DATE: 2002-07-17  
; PRIOR APPLICATION NUMBER: US 60/404,249  
; PRIOR FILING DATE: 2002-08-16  
; PRIOR APPLICATION NUMBER: US 60/407,527  
; PRIOR FILING DATE: 2002-08-28  
; NUMBER OF SEQ ID NOS: 75  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 31

; LENGTH: 1471  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-411-037-31  
Query Match 50.1%; Score 754.8; DB 17; Length 1471;  
Best Local Similarity 99.7%; Pred. No. 2.6e-201;  
Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 1 ATGGCGCCCGTGGCGCTCTGGGCGCGCTGGCGCTGGAGCTCTGGGCTTGGCGGCG 60  
Db 1 ATGGCGCCCGTGGCGCTCTGGGCGCGCTGGCGCTGGAGCTCTGGGCTTGGCGGCG 60  
Qy 61 CACGCTTGGCGCCCGAGGTGGCATTTACACCCCTACGCGCGGAGCCCGGAGCACAATGC 120  
Db 61 CACGCTTGGCGCCCGAGGTGGCATTTACACCCCTACGCGCGGAGCCCGGAGCACAATGC 120  
Qy 121 CGGCTCAGAGAATACTATGACACAGACAGCTCAGATGTGTGTCAGCAAAATGCTCCCGGGC 180  
Db 121 CGGCTCAGAGAATACTATGACACAGACAGCTCAGATGTGTGTCAGCAAAATGCTCCCGGGC 180  
Qy 181 CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGTGACTCTGTGTGAGGAC 240  
Db 181 CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGTGACTCTGTGTGAGGAC 240  
Qy 241 AGCATATACACCCAGCTCTGGAACCTGGGTTCGCGAGTGTGGCTTCCCGCTGT 300  
Db 241 AGCATATACACCCAGCTCTGGAACCTGGGTTCGCGAGTGTGGCTTCCCGCTGT 300  
Qy 301 AGCTCTGACCCAGGTGGAACCTCAAGCTTGCACCTCGGGAACAGAACCCGATCTGCACCTGC 360  
Db 301 AGCTCTGACCCAGGTGGAACCTCAAGCTTGCACCTCGGGAACAGAACCCGATCTGCACCTGC 360  
Qy 361 AGGCCCGCGTGTACTGCGCGCTGAGCAAGCAGAGGGGTGCGGGTGTGCGCGCGCTG 420  
Db 361 AGGCCCGCGTGTACTGCGCGCTGAGCAAGCAGAGGGGTGCGGGTGTGCGCGCGCTG 420  
Qy 421 CGCAAGTGGCGCGCGGGCTTCGGCGTGGCCAGACAGCAAGTGAACATCAGACGTGGTG 480  
Db 421 CGCAAGTGGCGCGCGGGCTTCGGCGTGGCCAGACAGCAAGTGAACATCAGACGTGGTG 480  
Qy 481 TGCAAGCCCTGTGCCCCGGGAGCGTTCTTCCAAACAGCACTTCCACCGATATTTGCAGG 540  
Db 481 TGCAAGCCCTGTGCCCCGGGAGCGTTCTTCCAAACAGCACTTCCACCGATATTTGCAGG 540  
Qy 541 CCCACACAGATCTGTAAAGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTTGC 600  
Db 541 CCCACACAGATCTGTAAAGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTTGC 600  
Qy 601 ACGTCCAGTCCCGCGGGTTCGGCGTGGCCAGTATGCCCCAGGGGCGAGTACACTTACCCAGCCAGTG 660  
Db 601 ACGTCCAGTCCCGCGGGTTCGGCGTGGCCAGTATGCCCCAGGGGCGAGTACACTTACCCAGCCAGTG 660  
Qy 661 TCCACACAGATCCCAACACACAGCAGCAACTCCAGAACCCAGCACTGTCTCCAAAGCACCTCC 720  
Db 661 TCCACACAGATCCCAACACACAGCAGCAACTCCAGAACCCAGCACTGTCTCCAAAGCACCTCC 720  
Qy 721 TTCTGTCTCCCAATGGGGCCCCAGCCCCCAGCTAGAGG 758  
Db 721 TTCTGTCTCCCAATGGGGCCCCAGCCCCCAGCTAGAGG 758  
RESULT 7  
US-10-411-026-31  
; Sequence 31, Application US/10411026  
; Publication No. US20040063911A1  
; GENERAL INFORMATION:  
; APPLICANT: Neose Technologies, Inc.  
; APPLICANT: Defrees, Shawn  
; APPLICANT: Zopf, David  
; APPLICANT: Bayer, Robert  
; APPLICANT: Hakes, David  
; APPLICANT: Chen, Xi

? CURRENT APPLICATION NUMBER: US10/410,962									
? CURRENT FILING DATE: 2003-04-09									
? PRIOR APPLICATION NUMBER: US 60/328,523									
? PRIOR FILING DATE: 2001-10-10									
? PRIOR APPLICATION NUMBER: US 60/344,692									
? PRIOR FILING DATE: 2001-10-19									
? PRIOR APPLICATION NUMBER: US 60/387,292									
? PRIOR FILING DATE: 2002-06-07									
? PRIOR APPLICATION NUMBER: US 60/391,777									
? PRIOR FILING DATE: 2002-06-25									
? PRIOR APPLICATION NUMBER: US 60/396,594									
? PRIOR FILING DATE: 2002-07-17									
? PRIOR APPLICATION NUMBER: US 60/404,249									
? PRIOR FILING DATE: 2002-08-16									
? PRIOR APPLICATION NUMBER: US 60/407,527									
? PRIOR FILING DATE: 2002-08-28									
? NUMBER OF SEQ ID NOS: 75									
? SOFTWARE: PatentIn version 3.2									
? SEQ ID NO 31									
? LENGTH: 1471									
? TYPE: DNA									
? ORGANISM: Homo sapiens									
US-10-410-962-31									
Query Match 50.1%; Score 754.8; DB 17; Length 1471;									
Best Local Similarity 99.7%; Pred. No. 2.6e-201;									
Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0									
Qy	1	ATGGCGCCCGCTCGCGCGCTGCGCGCGCTGCGACCTCGAGCTCGGAGCTCTGGGCTCGGCG	60						
Db	1	ATGGCGCCCGTGCCTGCTGCGCGCGCTGCGCGCGCTGCGACCTCGGAGCTCTGGGCTCGGCG	60						
Qy	61	CAGCCCTTGCCCGCCCAAGTGGCATTACCCCTACGCCCCCGGAGCCCGGAGCACAATGC	120						
Db	61	CAGCCCTTGCCCGCCCAAGTGGCATTACCCCTACGCCCCCGGAGCCCGGAGCACAATGC	120						
Qy	121	CGGCTCAGAGAACTATGACCCAGACAGCTCAGATGTGCTCGACCAATGCTCCGCCGGGC	180						
Db	121	CGGCTCAGAGAACTATGACCCAGACAGCTCAGATGTGCTCGACCAATGCTCCGCCGGGC	180						
Qy	181	CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGGTGTGTGACTCTCTGTGAGGAC	240						
Db	181	CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGGTGTGTGACTCTCTGTGAGGAC	240						
Qy	241	AGCACATACACCGAGCTCTGGAACTCGGGTCCCGAGTGTGAGCTGTGGCTCCCGCTGT	300						
Db	241	AGCACATACACCGAGCTCTGGAACTCGGGTTCGCCAGTGTGAGCTGTGGCTCCCGCTGT	300						



Query Match	50.1%;	Score 754.8;	DB 18;	Length 1471;
Best Local Similarity	99.7%;	Pred. No. 2.6e-201;		
Matches 756;	Conservative 0;	Mismatches 2;	Indels 0;	Gaps 0;
Qy	1	ATGCGCCCGCTCGCGCTCGCGCGCGCTCGCGCTCGGACTGAGACTCTGGGCTGCGGCG	60	
Db	1	ATGCGCCCGCTCGCGCTCGCGCGCGCTCGCGCTCGGACTGAGACTCTGGGCTGCGGCG	60	
Qy	61	CAGCCTTGCCCGCCCAAGTGGCATTTACACCTTACGCCCCCGGAGCCGGAGACACATGC	120	
Db	61	CAGCCTTGCCCGCCCAAGTGGCATTTACACCTTACGCCCCCGGAGCCGGAGACACATGC	120	
Qy	121	CGGCTCAGAGAACTACTATGACCAGACAGCTCAGATGTGCTGCACGAAATGCTCCGCCGGC	180	
Db	121	CGGCTCAGAGAACTACTATGACCAGACAGCTCAGATGTGCTGCACGAAATGCTCCGCCGGC	180	
Qy	181	CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGGTGTGTGACTCTCTGTGAGAC	240	
Db	181	CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGGTGTGTGACTCTCTGTGAGAC	240	
Qy	241	AGCACATACACCCAGCTCTGGAACTGGGTTCCCGAGTGTCTTGAGCTGTGGCTCCCGCTGT	300	
Db	241	AGCACATACACCCAGCTCTGGAACTGGGTTCCCGAGTGTCTTGAGCTGTGGCTCCCGCTGT	300	
Qy	301	AGCTCTGACACAGGTGAAAACTCAAGCCTGCACCTCGGAAACAGAACCCGATCTGCACCTGC	360	
Db	301	AGCTCTGACACAGGTGAAAACTCAAGCCTGCACCTCGGAAACAGAACCCGATCTGCACCTGC	360	

```
QY 361 AGCCCGGCTGTAAGCGCTGAGCAAGCAGAGGGGTGCGCGCGCTG 420
Db 361 AGCCCGGCTGTAAGCGCTGAGCAAGCAGAGGGGTGCGCGCGCTG 420
QY 421 CGAAGTCCCGCGGGCTTCGGCGTGCAGACAGGAACTGAAACATCAGAGTGGTG 480
Db 421 CGAAGTCCCGCGGGCTTCGGCGTGCAGACAGGAACTGAAACATCAGAGTGGTG 480
QY 481 TGAAGCCTGTGCCCCGGGACGTTTCCAAACAGACTTCAACAGGATATTGCAAG 540
Db 481 TGAAGCCTGTGCCCCGGGACGTTTCCAAACAGACTTCAACAGGATATTGCAAG 540
QY 541 CCCACACAGACTGTAAAGTGGTGGCCATCCCTGGGAATGCAAGATGGATGCACTGCG 600
Db 541 CCCACACAGACTGTAAAGTGGTGGCCATCCCTGGGAATGCAAGATGGATGCACTGCG 600
QY 601 ACGTCCAGTCCCCCAGGAGTATGCGCCAGGGGAGTACACTTACCCAGCCAGTG 660
Db 601 ACGTCCAGTCCCCCAGGAGTATGCGCCAGGGGAGTACACTTACCCAGCCAGTG 660
QY 661 TCCACAGATCCCAACACACGAGCCAACTCCAGAACCCAGACTGCTCCAAAGCACTCC 720
Db 661 TCCACAGATCCCAACACACGAGCCAACTCCAGAACCCAGACTGCTCCAAAGCACTCC 720
QY 721 TTCTGTCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG 758
Db 721 TTCTGTCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG 758
```

## RESULT 12

```
US-10-012-31
; Sequence 31, Application US/10411012
; Publication No. US20040132640A1
; GENERAL INFORMATION:
; APPLICANT: Neose Technologies, Inc.
; APPLICANT: Zopf, David
; APPLICANT: Bayer, Robert
; APPLICANT: Hakes, David
; APPLICANT: Chen, Xi
; APPLICANT: Bove, Caryn
; TITLE OF INVENTION: GLYCOPEGYLATION METHODS AND PROTEINS/PEPTIDES PRODUCED BY THE
; FILE REFERENCE: 040853-01-5051
; CURRENT APPLICATION NUMBER: US/10/411,012
; PRIOR FILING DATE: 2003-04-09
; PRIOR APPLICATION NUMBER: US 60/328,523
; PRIOR FILING DATE: 2001-10-10
; PRIOR APPLICATION NUMBER: US 60/344,692
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/387,292
; PRIOR FILING DATE: 2002-06-07
; PRIOR APPLICATION NUMBER: US 60/391,777
; PRIOR FILING DATE: 2002-06-25
; PRIOR APPLICATION NUMBER: US 60/396,594
; PRIOR FILING DATE: 2002-07-17
; PRIOR APPLICATION NUMBER: US 60/404,249
; PRIOR FILING DATE: 2002-08-16
; PRIOR APPLICATION NUMBER: US 60/407,527
; PRIOR FILING DATE: 2002-08-28
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 31
; LENGTH: 1471
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-411-012-31
```

```
Query Match 50.1%; Score 754.8; DB 18; Length 1471;
Best Local Similarity 99.7%; Pred. No. 2.6e-201;
Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 ATGGCGCCGCTGCGCGCTGCGCGCGCTGCGAGCTGAGAGCTCTGGGCTGCGGCG 60
Db 1 ATGGCGCCGCTGCGCGCTGCGCGCGCTGCGAGCTGAGAGCTCTGGGCTGCGGCG 60
QY 61 CACGCTTGGCCCGCCAGGTGGCATTTACACCCCTACGCCCGCGAGCCCGGAGCACATGC 120
Db 61 CACGCTTGGCCCGCCAGGTGGCATTTACACCCCTACGCCCGCGAGCCCGGAGCACATGC 120
QY 121 CGGCTCAGAGAACTATAGACAGACAGCTCAGATGTGTGTCAGCAAAATGCTCGCGGGC 180
Db 121 CGGCTCAGAGAACTATAGACAGACAGCTCAGATGTGTGTCAGCAAAATGCTCGCGGGC 180
QY 181 CAACATCAAAAGTCTTCTGTACCAAGCTTCGACACCCGTCGTGTGACTCTCTGAGGAC 240
Db 181 CAACATCAAAAGTCTTCTGTACCAAGCTTCGACACCCGTCGTGTGACTCTCTGAGGAC 240
QY 241 AGCATAACACCCAGCTCTGGAACTGGGTTCGCCAGTGTGAGCTGTGGCTCCCGCTGT 300
Db 241 AGCATAACACCCAGCTCTGGAACTGGGTTCGCCAGTGTGAGCTGTGGCTCCCGCTGT 300
QY 301 AGCTCTGACCAAGTGGAACTCAAGCCTGCACTCGGAAACAGAACCCGATCTGCACCTGC 360
Db 301 AGCTCTGACCAAGTGGAACTCAAGCCTGCACTCGGAAACAGAACCCGATCTGCACCTGC 360
QY 361 AGGCGCGCTGCTGAGCAAGCAGAGGGGTGCGCGCTGTCGCGCGCGCTG 420
Db 361 AGGCGCGCTGCTGAGCAAGCAGAGGGGTGCGCGCTGTCGCGCGCGCTG 420
QY 421 CGCAAGTCCCGCGCGCTTTCGGGTCGCGCAGACACAGGAACTGAAACATCAGAGTGGTG 480
Db 421 CGCAAGTCCCGCGCGCTTTCGGGTCGCGCAGACACAGGAACTGAAACATCAGAGTGGTG 480
QY 481 TGAAGCCCTGTGCGCGGGGAGCTTCTCMAACAGACTTCATCAGAGATATTGTCAGG 540
Db 481 TGAAGCCCTGTGCGCGGGGAGCTTCTCMAACAGACTTCATCAGAGATATTGTCAGG 540
QY 541 CCCACACAGACTCTGTAAGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTGCG 600
Db 541 CCCACACAGACTCTGTAAGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTGCG 600
QY 601 ACGTCCAGTCCCCCAGGAGTATGCGCCAGGGGAGTACACTTACCCAGCCAGTG 660
Db 601 ACGTCCAGTCCCCCAGGAGTATGCGCCAGGGGAGTACACTTACCCAGCCAGTG 660
QY 661 TCCACAGATCCCAACACACAGCAGCCAACTTCCAGAACCCAGACTGCTCCAAAGCACTCC 720
Db 661 TCCACAGATCCCAACACACAGCAGCCAACTTCCAGAACCCAGACTGCTCCAAAGCACTCC 720
QY 721 TTCTGTCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG 758
Db 721 TTCTGTCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG 758
```

RESULT 13

```
US-10-287-994-31
; Sequence 31, Application US/10287994
; Publication No. US20040137557A1
; GENERAL INFORMATION:
; APPLICANT: Neose Technologies, Inc.
; APPLICANT: DeFrees, Shawn
; APPLICANT: Zopf, David
; APPLICANT: Bayer, Robert
; APPLICANT: Bove, Caryn
; APPLICANT: Hakes, David
; APPLICANT: Chen, Xi
; TITLE OF INVENTION: REMODELING AND GLYCOCONJUGATION OF PEPTIDES
; FILE REFERENCE: 040853-01-5052-00
; CURRENT APPLICATION NUMBER: US/10/287,994
; CURRENT FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: US 60/328,523
; PRIOR FILING DATE: 2001-10-10
; PRIOR APPLICATION NUMBER: US 60/344,692
; PRIOR FILING DATE: 2001-10-19
```



; PRIOR APPLICATION NUMBER: US 60/387,292  
 ; PRIOR FILING DATE: 2002-06-07  
 ; PRIOR APPLICATION NUMBER: US 60/391,777  
 ; PRIOR FILING DATE: 2002-06-25  
 ; PRIOR APPLICATION NUMBER: US 60/396,594  
 ; PRIOR FILING DATE: 2002-07-17  
 ; PRIOR APPLICATION NUMBER: US 60/404,249  
 ; PRIOR FILING DATE: 2002-08-16  
 ; PRIOR APPLICATION NUMBER: US 60/407,527  
 ; PRIOR FILING DATE: 2002-08-28  
 ; NUMBER OF SEQ ID NOS: 62  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 31  
 ; LENGTH: 1471  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-287-994-31

Query Match 50.1%; Score 754.8; DB 18; Length 1471;  
 Best Local Similarity 99.7%; Pred. No. 2.6e-201;  
 Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy	1	ATGGCGCCGCTCGCCGCTGCGCGCGCTGCGCGCTGCGAGCTGAGAGCTCTGGGCTGCGGCG	60
Db	1	ATGGCGCCGCTCGCCGCTGCGCGCGCTGCGCGCTGCGAGCTCTGGGCTGCGGCG	60
Qy	61	CAGCCCTTGGCCGCCAGGTGGCAATTTACACCTTACGCCCGGAGCCCGGAGCACATGC	120
Db	61	CAGCCCTTGGCCGCCAGGTGGCAATTTACACCTTACGCCCGGAGCCCGGAGCACATGC	120
Qy	121	CGGCTCAGAGAATACTATGACACAGAGCTCAGATGCTGCAGCAAAATGCTCGCCGGGC	180
Db	121	CGGCTCAGAGAATACTATGACACAGAGCTCAGATGCTGCAGCAAAATGCTCGCCGGGC	180
Qy	181	CAACATGCAAAAGTCTTCTGTATCAAGACCTCGACACCGTGTGTGACTCTGTGAGGAC	240
Db	181	CAACATGCAAAAGTCTTCTGTATCAAGACCTCGACACCGTGTGTGACTCTGTGAGGAC	240
Qy	241	AGCAGATACACCCAGCTCTGGAATCCGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGT	300
Db	241	AGCAGATACACCCAGCTCTGGAATCCGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGT	300
Qy	301	AGCTCTGACAGGTGGAAATCTCAAGCTGCACTCGGAAACAGAACCCGATCTGCACCTGC	360
Db	301	AGCTCTGACAGGTGGAAATCTCAAGCTGCACTCGGAAACAGAACCCGATCTGCACCTGC	360
Qy	361	AGGCCGGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGT	420
Db	361	AGGCCGGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGT	420
Qy	421	CGCAAGTGGCCCGCGGCTTCCGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGT	480
Db	421	CGCAAGTGGCCCGCGGCTTCCGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGT	480
Qy	481	TGCAAGCCCTGTGCGCCCGGAGCGTCTTCAACACAGACTTCAATCCAGGATATTTCAGG	540
Db	481	TGCAAGCCCTGTGCGCCCGGAGCGTCTTCAACACAGACTTCAATCCAGGATATTTCAGG	540
Qy	541	CCCCACAGATCTGTAACTGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTGTC	600
Db	541	CCCCACAGATCTGTAACTGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTGTC	600
Qy	601	ACGTCCAGTCCCCACCCGAGTATGGCCCGGAGGAGTACATTTACCCAGCCAGTG	660
Db	601	ACGTCCAGTCCCCACCCGAGTATGGCCCGGAGGAGTACATTTACCCAGCCAGTG	660
Qy	661	TCCACAGATCCCCAACACAGCAGCAACTCCAGACCTGCTTCAAGCACCTCC	720
Db	661	TCCACAGATCCCCAACACAGCAGCAACTCCAGACCTGCTTCAAGCACCTCC	720
Qy	721	TTCTGCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG	758
Db	721	TTCTGCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG	758

RESULT 14  
 US-10-410-913-31  
 ; Sequence 31. Application US/10410913  
 ; Publication No. US20040142856A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Neose Technologies, Inc.  
 ; APPLICANT: Defrees, Shawn  
 ; APPLICANT: Zopf, David  
 ; APPLICANT: Bayer, Robert  
 ; APPLICANT: Hakes, David  
 ; APPLICANT: Chen, Xi  
 ; APPLICANT: .Bowe, Caryn  
 ; TITLE OF INVENTION: GLYCOCONJUGATION METHODS AND PROTEINS/PEPTIDES PRODUCED BY THE  
 ; FILE OF INVENTION: METHODS  
 ; FILE REFERENCE: 040853-01-5081  
 ; CURRENT APPLICATION NUMBER: US/10/410,913  
 ; CURRENT FILING DATE: 2003-04-09  
 ; PRIOR APPLICATION NUMBER: US 60/328,523  
 ; PRIOR FILING DATE: 2001-10-10  
 ; PRIOR APPLICATION NUMBER: US 60/344,692  
 ; PRIOR FILING DATE: 2001-10-19  
 ; PRIOR APPLICATION NUMBER: US 60/387,292  
 ; PRIOR FILING DATE: 2002-06-07  
 ; PRIOR APPLICATION NUMBER: US 60/391,777  
 ; PRIOR FILING DATE: 2002-06-25  
 ; PRIOR APPLICATION NUMBER: US 60/396,594  
 ; PRIOR FILING DATE: 2002-07-17  
 ; PRIOR APPLICATION NUMBER: US 60/404,249  
 ; PRIOR FILING DATE: 2002-08-16  
 ; PRIOR APPLICATION NUMBER: US 60/407,527  
 ; PRIOR FILING DATE: 2002-08-28  
 ; NUMBER OF SEQ ID NOS: 75  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO 31  
 ; LENGTH: 1471  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-410-913-31

Query Match 50.1%; Score 754.8; DB 18; Length 1471;  
 Best Local Similarity 99.7%; Pred. No. 2.6e-201;  
 Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy	1	ATGGCGCCGCTCGCCGCTGCGCGCGCTGCGAGCTGAGAGCTCTGGGCTGCGGCG	60
Db	1	ATGGCGCCGCTCGCCGCTGCGCGCGCTGCGAGCTGAGAGCTCTGGGCTGCGGCG	60
Qy	61	CAGCCCTTGGCCGCCAGGTGGCAATTTACACCTTACGCCCGGAGCCCGGAGCACATGC	120
Db	61	CAGCCCTTGGCCGCCAGGTGGCAATTTACACCTTACGCCCGGAGCCCGGAGCACATGC	120
Qy	121	CGGCTCAGAGAATACTATGACACAGAGCTCAGATGCTGCAGCAAAATGCTCGCCGGGC	180
Db	121	CGGCTCAGAGAATACTATGACACAGAGCTCAGATGCTGCAGCAAAATGCTCGCCGGGC	180
Qy	181	CAACATGCAAAAGTCTTCTGTATCAAGACCTCGACACCGTGTGTGACTCTGTGAGGAC	240
Db	181	CAACATGCAAAAGTCTTCTGTATCAAGACCTCGACACCGTGTGTGACTCTGTGAGGAC	240
Qy	241	AGCAGATACACCCAGCTCTGGAATCCGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGT	300
Db	241	AGCAGATACACCCAGCTCTGGAATCCGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGT	300
Qy	301	AGCTCTGACAGGTGGAAATCTCAAGCTGCACTCGGAAACAGAACCCGATCTGCACCTGC	360
Db	301	AGCTCTGACAGGTGGAAATCTCAAGCTGCACTCGGAAACAGAACCCGATCTGCACCTGC	360
Qy	361	AGGCCGGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGT	420
Db	361	AGGCCGGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGT	420

Qy 421 CGAAGTCCGCCCGGGCTTCGGGTGGCCAGACCCAGGAACTGAAACATCAGACGTGGTG 480  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 421 CGCAAGTCCGCCCGGGCTTCGGGTGGCCAGACCCAGGAACTGAAACATCAGACGTGGTG 480  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 481 TGCAAGCCCTGTGCCCGGGGACGTTCTCCAAACAGCACTTCATCCACGGATATTTGCAGG 540  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 481 TGCAAGCCCTGTGCCCGGGGACGTTCTCCAAACAGCACTTCATCCACGGATATTTGCAGG 540  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 541 CCCACACAGATCTGTAAAGTGGTGGCCATCCCTGGGAATGAAGATGGATGCACTGTC 600  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 541 CCCACACAGATCTGTAAAGTGGTGGCCATCCCTGGGAATGAAGATGGATGCACTGTC 600  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 601 ACCTCCAGTCCCCACCCAGGATGAGCCACCCAGGGCAGTACACTTACCCAGCCAGTG 660  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 601 ACCTCCAGTCCCCACCCAGGATGAGCCACCCAGGGCAGTACACTTACCCAGCCAGTG 660  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 661 TCCACAGATCCCAACACACAGCAGCAACTCCAGAACCCAGCACTGCTTCCAAAGCACCTCC 720  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 661 TCCACAGATCCCAACACACAGCAGCAACTCCAGAACCCAGCACTGCTTCCAAAGCACCTCC 720  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 721 TTCTGTCTCCCAATGGGGCCCGAGCCCGCCAGCTAGAGG 758  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 721 TTCTGTCTCCCAATGGGGCCCGAGCCCGCCAGCTAGAGG 758  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

## RESULT 15

US-10-410-980-31  
; Sequence 31, Application US/10410980  
; Publication No. US20050031584A1  
; GENERAL INFORMATION:  
; APPLICANT: Neose Technologies, Inc.  
; APPLICANT: DeFrees, Shawn  
; APPLICANT: Zopf, David  
; APPLICANT: Bayer, Robert  
; APPLICANT: Hakes, David  
; APPLICANT: Chen, Xi  
; APPLICANT: Bowe, Caryn  
; TITLE OF INVENTION: INTERLEUKIN-2: REMODELING AND GLYCOCONJUGATION OF IL-2  
; FILE REFERENCE: 040853-01-5066  
; CURRENT APPLICATION NUMBER: US/10/410,980  
; CURRENT FILING DATE: 2003-04-09  
; PRIOR APPLICATION NUMBER: US 60/328,523  
; PRIOR FILING DATE: 2001-10-10  
; PRIOR APPLICATION NUMBER: US 60/344,692  
; PRIOR FILING DATE: 2001-10-19  
; PRIOR APPLICATION NUMBER: US 60/387,292  
; PRIOR FILING DATE: 2002-06-07  
; PRIOR APPLICATION NUMBER: US 60/391,777  
; PRIOR FILING DATE: 2002-06-25  
; PRIOR APPLICATION NUMBER: US 60/396,594  
; PRIOR FILING DATE: 2002-07-17  
; PRIOR APPLICATION NUMBER: US 60/404,249  
; PRIOR FILING DATE: 2002-08-16  
; PRIOR APPLICATION NUMBER: US 60/407,527  
; PRIOR FILING DATE: 2002-08-28  
; NUMBER OF SEQ ID NOS: 75  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 31  
; LENGTH: 1471  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-410-980-31

Query Match 50.1%; Score 754.8; DB 19; Length 1471;  
Best Local Similarity 99.7%; Pred. No. 2.6e-201;  
Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ATGGGGCCCGTCCCGCTGGCGCGCTGGCGCTGGAGCTGGAGCTTGGGCTGGCGCG 60  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 1 ATGGGGCCCGTCCCGCTGGCGCGCTGGCGCTGGAGCTGGAGCTTGGGCTGGCGCG 60  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 61 CACGCTTGGCCCGCCAGGTGGCATTTACACCTTACGCCCGCGGAGCCGGGAGCACATGC 120  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Db 61 CACGCTTGGCCCGCCAGGTGGCATTTACACCTTACGCCCGCGGAGCCGGGAGCACATGC 120  
Qy 121 CGGCTCAGAGAAATCTATATGACAGACAGCTCAGATGTGTGCAGCAAATGCTCGCCGGGC 180  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 121 CGGCTCAGAGAAATCTATATGACAGACAGCTCAGATGTGTGCAGCAAATGCTCGCCGGGC 180  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 181 CAACATGCAAAAGTCTTCTGTACCAAGACCTTCGGACACCGTGTGTGACTCTCTGTGAGGAC 240  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 181 CAACATGCAAAAGTCTTCTGTACCAAGACCTTCGGACACCGTGTGTGACTCTCTGTGAGGAC 240  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 241 AGCATAACACCCAGCTTCGAACTGGGTTCCCGAGTGTGAGCTGTGGCTCCCGCTGT 300  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 241 AGCATAACACCCAGCTTCGAACTGGGTTCCCGAGTGTGAGCTGTGGCTCCCGCTGT 300  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 301 AGCTCTGACCAAGTGGGAACTCAAGCCTGCACTCGGGAACAGAACCGCATCTGCACCTGC 360  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 301 AGCTCTGACCAAGTGGGAACTCAAGCCTGCACTCGGGAACAGAACCGCATCTGCACCTGC 360  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 361 AGGCCCGGCTGGTACTCGCGCTGAGCAAGCAGAGGGGTGCCGGCTGTGCGCCCGCTG 420  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 361 AGGCCCGGCTGGTACTCGCGCTGAGCAAGCAGAGGGGTGCCGGCTGTGCGCCCGCTG 420  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 421 CGCAAGTGC CGCCCGGGCTTCGGCGTGGCCAGACAGGAACTGAAACATCAGACGTGGTG 480  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 421 CGCAAGTGC CGCCCGGGCTTCGGCGTGGCCAGACAGGAACTGAAACATCAGACGTGGTG 480  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 481 TGCAAGCCCTGTGCCCGGGGACGTTCTCCAAACAGCACTTCATCCACGGATATTTGCAGG 540  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 481 TGCAAGCCCTGTGCCCGGGGACGTTCTCCAAACAGCACTTCATCCACGGATATTTGCAGG 540  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 541 CCCCACAGATCTGTAAAGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTGTC 600  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 541 CCCCACAGATCTGTAAAGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTGTC 600  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 601 ACCTCCAGTCCCGCCACCCAGGATGATGGCCCGCGGCGAGTACACTTACCCAGCCAGTG 660  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 601 ACCTCCAGTCCCGCCACCCAGGATGATGGCCCGCGGCGAGTACACTTACCCAGCCAGTG 660  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 661 TCCACAGATCCCAACACACAGCAGCCAACTTCAGAACCCAGCACTGCTTCCAAAGCACCTCC 720  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 661 TCCACAGATCCCAACACACAGCAGCCAACTTCAGAACCCAGCACTGCTTCCAAAGCACCTCC 720  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 721 TTCTGTCTCCCAATGGGGCCCGAGCCCGCCAGCTAGAGG 758  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Qy 721 TTCTGTCTCCCAATGGGGCCCGAGCCCGCCAGCTAGAGG 758  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Search completed: June 4, 2005, 19:16:07  
Job time : 957 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 2, 2005, 20:30:17 ; Search time 141 Seconds  
(without alignments)  
1228.267 Million cell updates/sec

Title: US-09-285-531A-2  
Perfect score: 2802  
Sequence: 1 MAPVAVMAALAVGLELMAAA.....PSTFLLPMGPSPAPAGSTG 501

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1465611 seqs, 345679903 residues

Total number of hits satisfying chosen parameters: 1465611

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

- 1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/2/pubpaa/US10D\_PUBCOMB.pep.\*
- 17: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB.pep.\*
- 19: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*
- 20: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2674.5	95.4	720	14	US-10-363-427-8
2	2332	83.2	659	14	US-10-363-427-12
3	1427.5	50.9	461	9	US-09-800-909-2
4	1427.5	50.9	461	9	US-09-758-124-2
5	1427.5	50.9	461	9	US-09-800-908-3
6	1427.5	50.9	461	10	US-09-902-176A-50
7	1427.5	50.9	461	10	US-09-902-176A-52
8	1427.5	50.9	461	13	US-10-164-592-3
9	1427.5	50.9	461	14	US-10-252-408-2
10	1427.5	50.9	461	14	US-10-420-785-2
11	1427.5	50.9	461	15	US-10-423-927-2
12	1427.5	50.9	461	15	US-10-411-037-32
13	1427.5	50.9	461	15	US-10-411-026-32

14	1427.5	50.9	461	15	US-10-410-962-32	Sequence 32, Appl
15	1427.5	50.9	461	15	US-10-411-049-32	Sequence 32, Appl
16	1427.5	50.9	461	16	US-10-410-930-32	Sequence 32, Appl
17	1427.5	50.9	461	16	US-10-410-997-32	Sequence 32, Appl
18	1427.5	50.9	461	16	US-10-411-012-32	Sequence 32, Appl
19	1427.5	50.9	461	16	US-10-287-994-32	Sequence 32, Appl
20	1427.5	50.9	461	16	US-10-410-913-32	Sequence 32, Appl
21	1427.5	50.9	461	16	US-10-632-929-3	Sequence 3, Appli
22	1427.5	50.9	461	17	US-10-410-980-32	Sequence 32, Appl
23	1427.5	50.9	461	17	US-10-901-735-1	Sequence 1, Appli
24	1427.5	50.9	461	17	US-10-775-180-152	Sequence 152, App
25	1427.5	50.9	461	17	US-10-775-180-155	Sequence 155, App
26	1427.5	50.9	461	17	US-10-410-897-32	Sequence 32, Appl
27	1427.5	50.9	461	17	US-10-492-261-32	Sequence 32, Appl
28	1427.5	50.7	461	9	US-09-826-212-4	Sequence 4, Appli
29	1421.5	50.7	461	9	US-09-896-096A-17	Sequence 17, Appl
30	1421.5	50.7	461	9	US-09-894-924-17	Sequence 17, Appl
31	1421.5	50.7	461	9	US-09-840-707A-17	Sequence 17, Appl
32	1421.5	50.7	461	9	US-09-935-727-6	Sequence 6, Appli
33	1421.5	50.7	461	10	US-09-902-176A-54	Sequence 54, Appl
34	1421.5	50.7	461	14	US-10-046-433-6	Sequence 6, Appli
35	1421.5	50.7	461	14	US-10-038-557A-17	Sequence 17, Appl
36	1421.5	50.7	461	14	US-10-186-643-4	Sequence 4, Appli
37	1421.5	50.7	461	15	US-10-418-242-6	Sequence 6, Appli
38	1421.5	50.7	461	15	US-10-456-819-17	Sequence 17, Appl
39	1421.5	50.7	461	16	US-10-688-132-17	Sequence 17, Appl
40	1413.5	50.4	450	9	US-09-768-779A-3	Sequence 3, Appli
41	1413.5	50.4	450	14	US-10-291-480-3	Sequence 3, Appli
42	1409	50.3	257	14	US-10-313-852-10	Sequence 10, Appl
43	1409	50.3	257	14	US-10-314-033-10	Sequence 10, Appl
44	1409	50.3	490	14	US-10-363-427-4	Sequence 4, Appli
45	1409	50.3	518	14	US-10-313-852-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1  
US-10-363-427-8  
; Sequence 8, Application US/10363427  
; Publication No. US20030195338A1  
; GENERAL INFORMATION:  
; APPLICANT: MedGen Inc.  
; APPLICANT: CHUNG, Yong Hoon  
; APPLICANT: HAN, Ji Woong  
; APPLICANT: LEE, Hye Ja  
; APPLICANT: CHOI, Eun Yong  
; APPLICANT: KIM, Jin Mi  
; APPLICANT: YIM, Soo Bin  
; TITLE OF INVENTION: Concatametric Immunoadhesion  
; FILE REFERENCE:  
; CURRENT APPLICATION NUMBER: US/10/363,427  
; CURRENT FILING DATE: 2003-02-28  
; NUMBER OF SEQ ID NOS: 52  
; SOFTWARE: KopatentIn 1.71  
; SEQ ID NO 8  
; LENGTH: 720  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-363-427-8

Query Match	95.4%	Score	2674.5	DB	14	Length	720
Best Local Similarity	96.0%	Pred. No.	7.8e-149				
Matches	481	Conservative	1	Mismatches	4	Indels	15
						Gaps	1
QY	1	MAPVAVMAALAVGLELMAAAHALPAQVAFTPYAPPEPGSTCRRLREYYDQTAQMCCSKCSPG	60				
Db	1	MAPVAVMAALAVGLELMAAAHALPAQVAFTPYAPPEPGSTCRRLREYYDQTAQMCCSKCSPG	60				
QY	61	QIAKVFCTKTSDTVCDSDBSTYVTLQWNVVPECLSCGSRCSQDVQVTOACTREQNRICTC	120				
Db	61	QIAKVFCTKTSDTVCDSDBSTYVTLQWNVVPECLSCGSRCSQDVQVTOACTREQNRICTC	120				

```
QY 121 RPYGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVKPCAPGTFSTSSDTCR 180
DB 121 RPYGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVKPCAPGTFSTSSDTCR 180
QY 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240
DB 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240
QY 241 FLLPMGSPPPARGGGGGGGSDPAQVAFTPYAPBPGSTCRRLREYYDQTAQMCCS 300
DB 241 FLLPMGSPPPARGGGGSGN-----ATPYAPBPGSTCRRLREYYDQTAQMCCS 285
QY 301 KCSPGQHAQVCTKTSTVCDSCEDSTYTQLMNWPCLSCGSRCSDDQVETQACTREON 360
DB 286 KCSPGQHAQVCTKTSTVCDSCEDSTYTQLMNWPCLSCGSRCSDDQVETQACTREON 345
QY 361 RICTCRPGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVKPCAPGTFSTSS 420
DB 346 RICTCRPGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVKPCAPGTFSTSS 405
QY 421 TDCRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPST 480
DB 406 TDCRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPST 465
QY 481 APSTSFLLPMGSPPPARGSTG 501
DB 466 APSTSFLLPMGSPPPARGSTG 486

RESULT 2
US-10-363-427-12
; Sequence 12, Application US/10363427
; Publication No. US20030195338A1
; GENERAL INFORMATION:
; APPLICANT: MedexGen Inc.
; APPLICANT: CHUNG, Yong Hoon
; APPLICANT: HAN, Ji Woong
; APPLICANT: LEE, Hye Ja
; APPLICANT: CHOI, Eun Yong
; APPLICANT: KIM, Jin Mi
; APPLICANT: YIM, Soo Bin
; TITLE OF INVENTION: Concatametric Immunoadhesion
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/363,427
; CURRENT FILING DATE: 2003-02-28
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: KopatentIn 1.71
; SEQ ID NO 12
; LENGTH: 659
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-363-427-12

Query Match 83.2%; Score 2332; DB 14; Length 659;
Best Local Similarity 84.4%; Pred. No. 8.1e-129;
Matches 423; Conservative 0; Mismatches 2; Indels 76; Gaps 1;

QY 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPBPGSTCRRLREYYDQTAQMCCSKSPG 60
DB 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPBPGSTCRRLREYYDQTAQMCCSKSPG 60
QY 61 QHAKVCTKTSTVCDSCEDSTYTQLMNWPCLSCGSRCSDDQVETQACTREONRICTC 120
DB 61 QHAKVCTKTSTVCDSCEDSTYTQLMNWPCLSCGSRCSDDQVETQACTREONRICTC 120
QY 121 RPYGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVKPCAPGTFSTSSDTCR 180
DB 121 RPYGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVKPCAPGTFSTSSDTCR 180
QY 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240
DB 181 PHQICNVVAIPGNASMDANCTS----- 202
```

```
QY 241 FLLPMGSPPPARGGGGGGGSDPAQVAFTPYAPBPGSTCRRLREYYDQTAQMCCS 300
DB 203 -----PEPNSTCRRLREYYDQTAQMCCS 224
QY 301 KCSPGQHAQVCTKTSTVCDSCEDSTYTQLMNWPCLSCGSRCSDDQVETQACTREON 360
DB 225 KCSPGQHAQVCTKTSTVCDSCEDSTYTQLMNWPCLSCGSRCSDDQVETQACTREON 284
QY 361 RICTCRPGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVKPCAPGTFSTSS 420
DB 285 RICTCRPGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVKPCAPGTFSTSS 344
QY 421 TDCRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPST 480
DB 345 TDCRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPST 404
QY 481 APSTSFLLPMGSPPPARGSTG 501
DB 405 APSTSFLLPMGSPPPARGSTG 425

RESULT 3
US-09-800-909-2
; Sequence 2, Application US/09800909
; Patent No. US20010019833A1
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSKY, Igor
; APPLICANT: METT, Igor
; APPLICANT: ENGELMANN, Hartmut
; TITLE OF INVENTION: TNF INHIBITORS
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/800,909
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/476,862
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 94039
; FILING DATE: 06-APR-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 91229
; FILING DATE: 06-AUG-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 90339
; FILING DATE: 18-MAY-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: WALLACH=12A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 461 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
```

```
; MOLECULE TYPE: protein
; US-09-800-909-2

Query Match      50.9%; Score 1427.5; DB 9; Length 461;
Best Local Similarity 58.6%; Pred. No. 5.3e-76;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy 1 MAPVAVMAALAVGLLEWAAAHALPAQVAFTPYAPPEPGSTCRLREYYDQTAQMCCSKCSPG 60
Db 1 MAPVAVMAALAVGLLEWAAAHALPAQVAFTPYAPPEPGSTCRLREYYDQTAQMCCSKCSPG 60

Qy 61 QHAKVFCTKTSDDTVCDSCEDSTYTQLNNWVPECLSCGSRSSDDQVETQACTREQNRICTC 120
Db 61 QHAKVFCTKTSDDTVCDSCEDSTYTQLNNWVPECLSCGSRSSDDQVETQACTREQNRICTC 120

Qy 121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVVCKPCAPGTFSTSTDI 180
Db 121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVVCKPCAPGTFSTSTDI 180

Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240
Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240

Qy 241 FLPLPMGSPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
Db 241 FLPLPMGSPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282

Qy 283 STCLREYYDQTAQMCCSKCSPG---QHAKVFCTKTSDDTVCDSCEDSTYTQLNNWVPECL 339
Db 283 STCLREYYDQTAQMCCSKCSPG---QHAKVFCTKTSDDTVCDSCEDSTYTQLNNWVPECL 339

Qy 340 SCGSRSSDDQVETQACTREQNRICTCRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459
Db 340 SCGSRSSDDQVETQACTREQNRICTCRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459

Qy 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPLMG 491
Db 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPLMG 491

Qy 420 QVPFSEECAPRSQ--LETPTLLGSTEEKPLPLG 452
Db 420 QVPFSEECAPRSQ--LETPTLLGSTEEKPLPLG 452

RESULT 4
US-09-758-124-2
; Sequence 2, Application US/09758124
; Patent No. US20020006391A1
; GENERAL INFORMATION:
; APPLICANT: SMITH, Craig A.
; APPLICANT: GOODWIN, Raymond G.
; APPLICANT: BECKMANN, M. Patricia
; TITLE OF INVENTION: TUMOR NECROSIS FACTOR-ALPHA AND -BETA RECEPTORS
; FILE REFERENCE: A7895
; CURRENT APPLICATION NUMBER: US/09/758,124
; CURRENT FILING DATE: 2001-01-12
; PRIOR APPLICATION NUMBER: 08/953,268
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 08/555,629
; PRIOR FILING DATE: 1995-11-09
; PRIOR APPLICATION NUMBER: 08/468,453
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/038,765
; PRIOR FILING DATE: 1993-03-13
; PRIOR APPLICATION NUMBER: 07/523,635
; PRIOR FILING DATE: 1990-05-10
; PRIOR APPLICATION NUMBER: 07/421,417
; PRIOR FILING DATE: 1989-10-13
; PRIOR APPLICATION NUMBER: 07/405,370
; PRIOR FILING DATE: 1989-09-11
; PRIOR APPLICATION NUMBER: 07/403,241
; PRIOR FILING DATE: 1989-09-05
; NUMBER OF SEQ ID NOS: 4

; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 461
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-758-124-2

Query Match      50.9%; Score 1427.5; DB 9; Length 461;
Best Local Similarity 58.6%; Pred. No. 5.3e-76;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy 1 MAPVAVMAALAVGLLEWAAAHALPAQVAFTPYAPPEPGSTCRLREYYDQTAQMCCSKCSPG 60
Db 1 MAPVAVMAALAVGLLEWAAAHALPAQVAFTPYAPPEPGSTCRLREYYDQTAQMCCSKCSPG 60

Qy 61 QHAKVFCTKTSDDTVCDSCEDSTYTQLNNWVPECLSCGSRSSDDQVETQACTREQNRICTC 120
Db 61 QHAKVFCTKTSDDTVCDSCEDSTYTQLNNWVPECLSCGSRSSDDQVETQACTREQNRICTC 120

Qy 121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVVCKPCAPGTFSTSTDI 180
Db 121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVVCKPCAPGTFSTSTDI 180

Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240
Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240

Qy 241 FLPLPMGSPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
Db 241 FLPLPMGSPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282

Qy 283 STCLREYYDQTAQMCCSKCSPG---QHAKVFCTKTSDDTVCDSCEDSTYTQLNNWVPECL 339
Db 283 STCLREYYDQTAQMCCSKCSPG---QHAKVFCTKTSDDTVCDSCEDSTYTQLNNWVPECL 339

Qy 340 SCGSRSSDDQVETQACTREQNRICTCRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459
Db 340 SCGSRSSDDQVETQACTREQNRICTCRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459

Qy 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPLMG 491
Db 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPLMG 491

Qy 420 QVPFSEECAPRSQ--LETPTLLGSTEEKPLPLG 452
Db 420 QVPFSEECAPRSQ--LETPTLLGSTEEKPLPLG 452

RESULT 5
US-09-800-908-3
; Sequence 3, Application US/09800908
; Patent No. US20020111462A1
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSEV, Igor
; APPLICANT: MEYER, Igor
; TITLE OF INVENTION: TNF LIGANDS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/800,908
```

```
; FILING DATE: 08-Mar-2001
; CLASSIFICATION: <unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/477,347
; FILING DATE: <unknown>
; APPLICATION NUMBER: IL 106271
; FILING DATE: 08-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Townsend, G. Kevin
; REGISTRATION NUMBER: 34,033
; REFERENCE/DOCKET NUMBER: WALLACH=10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 461 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-800-908-3

Query Match          50.9%; Score 1427.5; DB 9; Length 461;
Best Local Similarity 58.6%; Pred. No. 5.3e-76;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPEPGSTCLRREYYDQTAQMCCSKSPG 60
Db 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPEPGSTCLRREYYDQTAQMCCSKSPG 60

Qy 61 QHAKVFCTKTSDDTVCDSCEDSTYTQLWNWVPECLSCGSRSSDQVETQACTREQNRICTC 120
Db 61 QHAKVFCTKTSDDTVCDSCEDSTYTQLWNWVPECLSCGSRSSDQVETQACTREQNRICTC 120

Qy 121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 180
Db 121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 180

Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240
Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240

Qy 241 FLPMGSPPPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
Db 241 FLPMGSPPPAE-----GSTGDFALPVGLIVGVTALGLLIIGVNVNCVIMTQVKKP- 291

Qy 283 STCLRREYYDQTAQMCCSKSPG---QHAKVFCTKTSDDTVCDSCEDSTYTQLWNWVPECL 339
Db 283 STCLRREYYDQTAQMCCSKSPG---QHAKVFCTKTSDDTVCDSCEDSTYTQLWNWVPECL 339

Qy 340 SCGSRSSDQVETQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVGARPGT 399
Db 340 SCGSRSSDQVETQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVGARPGT 399

Qy 400 ETSDVCKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459
Db 400 ETSDVCKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459

Qy 460 HLP---QPVSTRSQHTOPTPEPSTAPSTSFLPLMG 491
Db 460 HLP---QPVSTRSQHTOPTPEPSTAPSTSFLPLMG 491

Qy 420 QVPFSKECAPRSQ--LETPTLLGSTEEKPLPLG 452
Db 420 QVPFSKECAPRSQ--LETPTLLGSTEEKPLPLG 452

RESULT 6
US-09-902-176A-50
; Sequence 50, Application US/09902176A
; Publication No. US20030099943A1
; GENERAL INFORMATION:
; APPLICANT: Schreiber, Stefan
; APPLICANT: Hampe, Jochen
; APPLICANT: Mascheretti, Silvia
; TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
; the TNF Receptor II and Method for Detecting
; FILE REFERENCE: 25481-P001US
; CURRENT APPLICATION NUMBER: US/09/902,176A
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: EP 00114786.7
; PRIOR FILING DATE: 2000-07-10
```

```
; TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
; the TNF Receptor II and Method for Detecting
; FILE REFERENCE: 25481-P001US
; CURRENT APPLICATION NUMBER: US/09/902,176A
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: EP 00114786.7
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 50
; LENGTH: 461
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-176A-50

Query Match          50.9%; Score 1427.5; DB 10; Length 461;
Best Local Similarity 58.6%; Pred. No. 5.3e-76;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPEPGSTCLRREYYDQTAQMCCSKSPG 60
Db 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPEPGSTCLRREYYDQTAQMCCSKSPG 60

Qy 61 QHAKVFCTKTSDDTVCDSCEDSTYTQLWNWVPECLSCGSRSSDQVETQACTREQNRICTC 120
Db 61 QHAKVFCTKTSDDTVCDSCEDSTYTQLWNWVPECLSCGSRSSDQVETQACTREQNRICTC 120

Qy 121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 180
Db 121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 180

Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240
Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240

Qy 241 FLPMGSPPPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
Db 241 FLPMGSPPPAE-----GSTGDFALPVGLIVGVTALGLLIIGVNVNCVIMTQVKKP- 291

Qy 283 STCLRREYYDQTAQMCCSKSPG---QHAKVFCTKTSDDTVCDSCEDSTYTQLWNWVPECL 339
Db 283 STCLRREYYDQTAQMCCSKSPG---QHAKVFCTKTSDDTVCDSCEDSTYTQLWNWVPECL 339

Qy 340 SCGSRSSDQVETQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVGARPGT 399
Db 340 SCGSRSSDQVETQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVGARPGT 399

Qy 400 ETSDVCKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459
Db 400 ETSDVCKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459

Qy 460 HLP---QPVSTRSQHTOPTPEPSTAPSTSFLPLMG 491
Db 460 HLP---QPVSTRSQHTOPTPEPSTAPSTSFLPLMG 491

Qy 420 QVPFSKECAPRSQ--LETPTLLGSTEEKPLPLG 452
Db 420 QVPFSKECAPRSQ--LETPTLLGSTEEKPLPLG 452

RESULT 7
US-09-902-176A-52
; Sequence 52, Application US/09902176A
; Publication No. US20030099943A1
; GENERAL INFORMATION:
; APPLICANT: Schreiber, Stefan
; APPLICANT: Hampe, Jochen
; APPLICANT: Mascheretti, Silvia
; TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
; the TNF Receptor II and Method for Detecting
; FILE REFERENCE: 25481-P001US
; CURRENT APPLICATION NUMBER: US/09/902,176A
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: EP 00114786.7
; PRIOR FILING DATE: 2000-07-10
```

```

; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 52
; LENGTH: 461
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-176A-52

Query Match          50.9%; Score 1427.5; DB 10; Length 461;
Best Local Similarity 58.6%; Pred. No. 5.3e-76;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

QY 1 MAPVAVAAALAVGLELWAAAHALPAQVAFTPYAPBPSTCLREYYIDQTAQMCCKSPG 60
DB 1 MAPVAVAAALAVGLELWAAAHALPAQVAFTPYAPBPSTCLREYYIDQTAQMCCKSPG 60
QY 61 QHAKVFCTKTSDDTVCDSCEDSTYTLQNNWPECLSCGSRSSDDQVETQACTREQNRICTC 120
DB 61 QHAKVFCTKTSDDTVCDSCEDSTYTLQNNWPECLSCGSRSSDDQVETQACTREQNRICTC 120
QY 121 RPYWCALSKQEGCRLCAPLRCRPGFGVARPGTETSDVVKCPACPTFSNTTSDICR 180
DB 121 RPYWCALSKQEGCRLCAPLRCRPGFGVARPGTETSDVVKCPACPTFSNTTSDICR 180
QY 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPPQVSTRQHTQPTPEPSTAPSTS 240
DB 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPPQVSTRQHTQPTPEPSTAPSTS 240
QY 241 FLPLPMGSPPARGGGGGGGGGGGGGGGSDPAQ-----VAFTPYAPBP 282
DB 241 FLPLPMGSPPAR-----GSTGDFALPVGLIVGVTALGLLIIGVNVCMTOVKKKP- 291
QY 283 STCLREYYIDQTAQMCCKSPG---QHAKVFCTKTSDDTVCDSCEDSTYTLQNNWPECL 339
DB 292 -LCLQREAKVPHLPADKARGTQGPQQHLLITAPSSSSSILES----- 333
QY 340 SCGSRSSDDQVETQACTREQNRICTRPGWYCALSKQEGCRLCAPLRCRPGFGVARPGT 399
DB 334 -----SASALDRRAPTRNQPQ-----APGVEAS-----GAGEARAST 365
QY 400 ETSDDVVKCPACPTFSNTTSDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459
DB 366 GSSD--SSPGGHGTQVNVTCIVNVSSSDHSSQCSQASSTMGD--TDSSPSSES--PRDE 419
QY 460 HLP---QPVSTRSQHTQPTPEPSTAPSTFLLPMG 491
DB 420 QVFFSKECAFRSQ--LETPETLGSTEEXPLPLG 452

RESULT 8
US-10-164-592-3
; Sequence 3, Application US/10164592
; Publication No. US20020150989A1
; GENERAL INFORMATION:
; APPLICANT: Greene, John M.
; TITLE OF INVENTION: Human Tumor Necrosis Factor Receptor
; FILE REFERENCE: 1488.0710007
; CURRENT APPLICATION NUMBER: US/10/164,592
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: US 08/469,637
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: PCT/US95/03216
; PRIOR FILING DATE: 1995-03-15
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 461
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-164-592-3

Query Match          50.9%; Score 1427.5; DB 13; Length 461;

```

Best Local Similarity 58.6%; Pred. No. 5.3e-76;  
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

QY 1 MAPVAVAAALAVGLELWAAAHALPAQVATTPYAPPEPGSTCRLEYYDQTAQMCCSKSPG 60  
DB 1 MAPVAVAAALAVGLELWAAAHALPAQVATTPYAPPEPGSTCRLEYYDQTAQMCCSKSPG 60

QY 61 QHAKVFCTKTSDFVDCSDSTVYQLWNWVPECLSCGSCSSDQVETQACTRQNRICTC 120  
DB 61 QHAKVFCTKTSDFVDCSDSTVYQLWNWVPECLSCGSCSSDQVETQACTRQNRICTC 120

QY 121 RPYWCALSKQEGCRCLCAPLRCRPGFGVARPGTETSDVVVKPCAPGTSTNTSSTDICR 180  
DB 121 RPYWCALSKQEGCRCLCAPLRCRPGFGVARPGTETSDVVVKPCAPGTSTNTSSTDICR 180

QY 181 PHQICNVVAIPGNASMDVACTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240  
DB 181 PHQICNVVAIPGNASMDVACTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240

QY 241 FLPLPMGSPPARGGGGGGGGGGGGGGGSDPAQ-----VAFTPYAPPEPG 282  
DB 241 FLPLPMGSPPAE-----GSTGDPALPGLITVGTALGLLIIGVVNVCIMTQVKKKP-- 291

QY 283 STCRLEYYDQTAQMCCSKSPG---QHAKVFCTKTSDFVDCSDCEDSTYQLWNWVPECL 339  
DB 292 -LCQREAKVPHLPADKARGTQGEQHLLITAPSSSSSSLES----- 333

QY 340 SCGSRCSQSDQVETQACTRQNRICTRCPGWYCALSKQEGCRCLCAPLRCRPGFGVARPGT 399  
DB 334 -----SASALDRRAFRNQPQ-----APGVEAS-----GAGEARAST 365

QY 400 ETSDDVVKPCAPGTSTNTSSSTDICRPHQICNVVAIPGNASMDVACTSTSPTRSMAPGAV 459  
DB 366 GSSD---SSPGHGCTQVNVTCIVNVCSSDHSQSSQASSTMGD--TDSPPSES--PKDE 419

QY 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPLPMG 491  
DB 420 QVPFSEKCAFRRSQ--LETPETLGLLSTEBKPUPLG 452

RESULT 9  
US-10-252-408-2  
; Sequence 2, Application US/10252408  
; Publication No. US20030082736A1  
; GENERAL INFORMATION:  
; APPLICANT: SMITH, Craig A.  
; TITLE OF INVENTION: TUMOR NECROSIS FACTOR-ALPHA AND BETA-RECEPTORS  
; FILE REFERENCE: A-71592  
; CURRENT APPLICATION NUMBER: US/10/252,408  
; CURRENT FILING DATE: 2002-09-24  
; PRIOR APPLICATION NUMBER: US/08/406,824  
; PRIOR FILING DATE: 1995-03-20  
; PRIOR APPLICATION NUMBER: US 08/255,849  
; PRIOR FILING DATE: 1994-06-08  
; PRIOR APPLICATION NUMBER: US 07/860,710  
; PRIOR FILING DATE: 1992-03-30  
; PRIOR APPLICATION NUMBER: US 07/523,635  
; PRIOR FILING DATE: 1990-05-10  
; PRIOR APPLICATION NUMBER: US 07/421,417  
; PRIOR FILING DATE: 1989-10-13  
; PRIOR APPLICATION NUMBER: US 07/405,370  
; PRIOR FILING DATE: 1989-09-11  
; PRIOR APPLICATION NUMBER: US 07/403,241  
; PRIOR FILING DATE: 1989-09-05  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 2  
; LENGTH: 461  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-252-408-2

Query Match 50.9%; Score 1427.5; DB 14; Length 461;

```
Best Local Similarity 58.6%; Pred. No. 5.3e-76;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPPEPGSTCLRREYDQTAQMCCKSCSPG 60
Db 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPPEPGSTCLRREYDQTAQMCCKSCSPG 60
Qy 61 QHAKVCTKTSDTVCDSCEDSTYTQLNNWVPECLSCGSRCSDDQVETOACTREONRICTC 120
Db 61 QHAKVCTKTSDTVCDSCEDSTYTQLNNWVPECLSCGSRCSDDQVETOACTREONRICTC 120
Qy 121 RPYWCALSKOEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 180
Db 121 RPYWCALSKOEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 180
Qy 181 PHQICNVVAIPGNASMDAVCTSTPTRSMAPGAVHLPQVSTRSQHTOPTPEPSTAPSTS 240
Db 181 PHQICNVVAIPGNASMDAVCTSTPTRSMAPGAVHLPQVSTRSQHTOPTPEPSTAPSTS 240
Qy 241 FLLPMGSPPARGGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
Db 241 FLLPMGSPPARGGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
Qy 283 STCLRREYDQTAQMCCKSCSPG---QHAKVCTKTSDTVCDSCEDSTYTQLNNWVPECL 339
Db 283 STCLRREYDQTAQMCCKSCSPG---QHAKVCTKTSDTVCDSCEDSTYTQLNNWVPECL 339
Qy 292 -LCLQREAKVPHLPADKARGTQGEQOHLITAPSSSSSLES----- 333
Db 292 -LCLQREAKVPHLPADKARGTQGEQOHLITAPSSSSSLES----- 333
Qy 340 SCGSRCSDDQVETOACTREONRICTCRPGWCALSKOEGCRLCAPLRCRPGFVGARPGT 399
Db 340 SCGSRCSDDQVETOACTREONRICTCRPGWCALSKOEGCRLCAPLRCRPGFVGARPGT 399
Qy 334 -----SASALDRRAPTRNQPO---APGVEAS-----GAGEARAST 365
Db 334 -----SASALDRRAPTRNQPO---APGVEAS-----GAGEARAST 365
Qy 400 ETSDVCKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDAVCTSTPTRSMAPGAV 459
Db 400 ETSDVCKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDAVCTSTPTRSMAPGAV 459
Qy 460 HLP---QPVSTRSQHTOPTPEPSTAPSTSFLPMG 491
Db 460 HLP---QPVSTRSQHTOPTPEPSTAPSTSFLPMG 491
Qy 420 QVPFSKECAFRSQ--LETPETLGSTEEXPLPLG 452
Db 420 QVPFSKECAFRSQ--LETPETLGSTEEXPLPLG 452

RESULT 10
US-10-420-785-2
; Sequence 2, Application US/10420785
; Publication No. US20030165459A1
; GENERAL INFORMATION:
; APPLICANT: SMITH, Craig A.
; APPLICANT: GOODWIN, Raymond G.
; APPLICANT: BECKMANN, M. Patricia
; TITLE OF INVENTION: TUMOR NECROSIS FACTOR-ALPHA AND -BETA RECEPTORS
; FILE REFERENCE: A7895
; CURRENT APPLICATION NUMBER: US/10/420,785
; CURRENT FILING DATE: 2003-04-23
; PRIOR FILING DATE: US/09/758,124
; PRIOR FILING DATE: 2001-01-12
; PRIOR APPLICATION NUMBER: 08/953,268
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 08/555,629
; PRIOR FILING DATE: 1995-11-09
; PRIOR APPLICATION NUMBER: 08/468,453
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/038,765
; PRIOR FILING DATE: 1993-03-13
; PRIOR APPLICATION NUMBER: 07/523,635
; PRIOR FILING DATE: 1990-05-10
; PRIOR APPLICATION NUMBER: 07/421,417
; PRIOR FILING DATE: 1989-10-13
; PRIOR APPLICATION NUMBER: 07/405,370
; PRIOR FILING DATE: 1989-09-11
; PRIOR APPLICATION NUMBER: 07/403,241
; PRIOR FILING DATE: 1989-09-05
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 2

; LENGTH: 461
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-420-785-2

Query Match 50.9%; Score 1427.5; DB 14; Length 461;
Best Local Similarity 58.6%; Pred. No. 5.3e-76;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPPEPGSTCLRREYDQTAQMCCKSCSPG 60
Db 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPPEPGSTCLRREYDQTAQMCCKSCSPG 60
Qy 61 QHAKVCTKTSDTVCDSCEDSTYTQLNNWVPECLSCGSRCSDDQVETOACTREONRICTC 120
Db 61 QHAKVCTKTSDTVCDSCEDSTYTQLNNWVPECLSCGSRCSDDQVETOACTREONRICTC 120
Qy 121 RPYWCALSKOEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 180
Db 121 RPYWCALSKOEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 180
Qy 181 PHQICNVVAIPGNASMDAVCTSTPTRSMAPGAVHLPQVSTRSQHTOPTPEPSTAPSTS 240
Db 181 PHQICNVVAIPGNASMDAVCTSTPTRSMAPGAVHLPQVSTRSQHTOPTPEPSTAPSTS 240
Qy 241 FLLPMGSPPARGGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
Db 241 FLLPMGSPPARGGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
Qy 283 STCLRREYDQTAQMCCKSCSPG---QHAKVCTKTSDTVCDSCEDSTYTQLNNWVPECL 339
Db 283 STCLRREYDQTAQMCCKSCSPG---QHAKVCTKTSDTVCDSCEDSTYTQLNNWVPECL 339
Qy 292 -LCLQREAKVPHLPADKARGTQGEQOHLITAPSSSSSLES----- 333
Db 292 -LCLQREAKVPHLPADKARGTQGEQOHLITAPSSSSSLES----- 333
Qy 340 SCGSRCSDDQVETOACTREONRICTCRPGWCALSKOEGCRLCAPLRCRPGFVGARPGT 399
Db 340 SCGSRCSDDQVETOACTREONRICTCRPGWCALSKOEGCRLCAPLRCRPGFVGARPGT 399
Qy 334 -----SASALDRRAPTRNQPO---APGVEAS-----GAGEARAST 365
Db 334 -----SASALDRRAPTRNQPO---APGVEAS-----GAGEARAST 365
Qy 400 ETSDVCKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDAVCTSTPTRSMAPGAV 459
Db 400 ETSDVCKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDAVCTSTPTRSMAPGAV 459
Qy 460 HLP---QPVSTRSQHTOPTPEPSTAPSTSFLPMG 491
Db 460 HLP---QPVSTRSQHTOPTPEPSTAPSTSFLPMG 491
Qy 420 QVPFSKECAFRSQ--LETPETLGSTEEXPLPLG 452
Db 420 QVPFSKECAFRSQ--LETPETLGSTEEXPLPLG 452

TITLE OF INVENTION: TNF INHIBITORS
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESS: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/423,927
FILING DATE: 28-Apr-2003
```



CLASSIFICATION: 435  
PRIOR APPLICATION DATA: US/08/476,862  
FILING DATE: 07-JUN-1995  
APPLICATION NUMBER: IL 107267  
FILING DATE: 12-OCT-1993  
APPLICATION NUMBER: IL 94039  
FILING DATE: 06-APR-1990  
APPLICATION NUMBER: IL 91229  
FILING DATE: 06-AUG-1989  
APPLICATION NUMBER: IL 90339  
FILING DATE: 18-MAY-1989  
ATTORNEY/AGENT INFORMATION:  
NAME: BROWDY, Roger L.  
REGISTRATION NUMBER: 25,618  
REFERENCE/DOCKET NUMBER: WALLACH=12A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-628-5197  
TELEFAX: 202-737-3528  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 461 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-10-423-927-2

Query Match 50.9%; Score 1427.5; DB 15; Length 461;  
Best Local Similarity 58.6%; Pred. No. 5.3e-76;  
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;  
QY 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPPEGSTCRLREYYDQTQMCKSKSPG 60  
DB 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPPEGSTCRLREYYDQTQMCKSKSPG 60  
QY 61 QHAKVCTKTSDDTVCDCEDSTYTQLNNWVPECLSCGSCSSDQVETOACTREQNRICTC 120  
DB 61 QHAKVCTKTSDDTVCDCEDSTYTQLNNWVPECLSCGSCSSDQVETOACTREQNRICTC 120  
QY 121 RPYWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVCKPCAPGTFSTSTDIICR 180  
DB 121 RPYWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVCKPCAPGTFSTSTDIICR 180  
QY 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQVSTRSQHTOPTPEPSTAPSTS 240  
DB 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQVSTRSQHTOPTPEPSTAPSTS 240  
QY 241 FLPMGSPPPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282  
DB 241 FLPMGSPPPAE-----GSTGFALPVGLIVGVTALGLLIIGVNVNCVIMTQVKKKP- 291  
QY 283 STCLREYYDQTQMCKSKSPG---QHAKVCTKTSDDTVCDCEDSTYTQLNNWVPECL 339  
DB 292 -LCLOREAKVPHLPADKARGTQGEQHLITAPSSSSSLES----- 333  
QY 340 SCGSCSSDQVETOACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVARPGT 399  
DB 334 -----SASALDRAPTRNQFQ-----APGVEAS-----GAGEARAST 365  
QY 400 ETSDVCKPCAPGTFSTSTSTDIICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459  
DB 366 GSSD--SSPGHGTVNNVTCIVNVCSHSSQCSQASSTMGD--TDSPPSES--PKDE 419  
QY 460 HLP---QPVSTRSQHTOPTPEPSTAPSTSFLPMG 491  
DB 420 QVPFKEECAPRSQ--LETPTLLGSTEEKPLPLG 452  
RESULT 12  
US-10-411-037-32  
; Sequence 32, Application US/10411037  
; Publication No. US20040043446A1

GENERAL INFORMATION:  
; APPLICANT: Neose Technologies, Inc.  
; APPLICANT: Defrees, Shawn  
; APPLICANT: Zopf, David  
; APPLICANT: Bayer, Robert  
; APPLICANT: Hakes, David  
; APPLICANT: Chen, Xi  
; APPLICANT: Bove, Caryn  
; TITLE OF INVENTION: ALPHA GALACTOSIDASE A: REMODELING AND GLYCOCONJUGATION OF ALPHA  
; FILE REFERENCE: 040853-01-5082  
; CURRENT APPLICATION NUMBER: US/10/411,037  
; CURRENT FILING DATE: 2003-04-09  
; PRIOR APPLICATION NUMBER: US 60/328,523  
; PRIOR FILING DATE: 2001-10-10  
; PRIOR APPLICATION NUMBER: US 60/344,692  
; PRIOR FILING DATE: 2001-10-19  
; PRIOR APPLICATION NUMBER: US 60/387,292  
; PRIOR FILING DATE: 2002-06-07  
; PRIOR APPLICATION NUMBER: US 60/391,777  
; PRIOR FILING DATE: 2002-06-25  
; PRIOR APPLICATION NUMBER: US 60/396,594  
; PRIOR FILING DATE: 2002-07-17  
; PRIOR APPLICATION NUMBER: US 60/404,249  
; PRIOR FILING DATE: 2002-08-16  
; PRIOR APPLICATION NUMBER: US 60/407,527  
; PRIOR FILING DATE: 2002-08-28  
; NUMBER OF SEQ ID NOS: 75  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 32  
; LENGTH: 461  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-411-037-32

Query Match 50.9%; Score 1427.5; DB 15; Length 461;  
Best Local Similarity 58.6%; Pred. No. 5.3e-76;  
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;  
QY 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPPEGSTCRLREYYDQTQMCKSKSPG 60  
DB 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPPEGSTCRLREYYDQTQMCKSKSPG 60  
QY 61 QHAKVCTKTSDDTVCDCEDSTYTQLNNWVPECLSCGSCSSDQVETOACTREQNRICTC 120  
DB 61 QHAKVCTKTSDDTVCDCEDSTYTQLNNWVPECLSCGSCSSDQVETOACTREQNRICTC 120  
QY 121 RPYWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVCKPCAPGTFSTSTDIICR 180  
DB 121 RPYWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVCKPCAPGTFSTSTDIICR 180  
QY 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQVSTRSQHTOPTPEPSTAPSTS 240  
DB 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQVSTRSQHTOPTPEPSTAPSTS 240  
QY 241 FLPMGSPPPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282  
DB 241 FLPMGSPPPAE-----GSTGFALPVGLIVGVTALGLLIIGVNVNCVIMTQVKKKP- 291  
QY 283 STCLREYYDQTQMCKSKSPG---QHAKVCTKTSDDTVCDCEDSTYTQLNNWVPECL 339  
DB 292 -LCLOREAKVPHLPADKARGTQGEQHLITAPSSSSSLES----- 333  
QY 340 SCGSCSSDQVETOACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVARPGT 399  
DB 334 -----SASALDRAPTRNQFQ-----APGVEAS-----GAGEARAST 365  
QY 400 ETSDVCKPCAPGTFSTSTSTDIICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459  
DB 366 GSSD--SSPGHGTVNNVTCIVNVCSHSSQCSQASSTMGD--TDSPPSES--PKDE 419  
QY 460 HLP---QPVSTRSQHTOPTPEPSTAPSTSFLPMG 491  
DB 420 QVPFKEECAPRSQ--LETPTLLGSTEEKPLPLG 452

Db 420 QVPFSKECAPRSQ--LETPELILGSTEKPLPLG 452

RESULT 13

US-10-411-026-32

; Sequence 32, Application US/10411026

; Publication No. US20040063911A1

; GENERAL INFORMATION:

; APPLICANT: Neose Technologies, Inc.

; APPLICANT: Defrees, Shawn

; APPLICANT: Zopf, David

; APPLICANT: Bayer, Robert

; APPLICANT: Hakes, David

; APPLICANT: Chen, Xi

; TITLE OF INVENTION: PROTEIN REMODELING METHODS AND PROTEINS/PEPTIDES PRODUCED BY THE

; TITLE OF INVENTION: METHODS

; FILE REFERENCE: 040853-01-5053

; CURRENT APPLICATION NUMBER: US/10/411,026

; CURRENT FILING DATE: 2003-04-09

; PRIOR APPLICATION NUMBER: US 60/328,523

; PRIOR FILING DATE: 2001-10-10

; PRIOR APPLICATION NUMBER: US 60/344,692

; PRIOR FILING DATE: 2001-10-19

; PRIOR APPLICATION NUMBER: US 60/387,292

; PRIOR FILING DATE: 2002-06-07

; PRIOR APPLICATION NUMBER: US 60/391,777

; PRIOR FILING DATE: 2002-06-25

; PRIOR APPLICATION NUMBER: US 60/396,594

; PRIOR FILING DATE: 2002-07-17

; PRIOR APPLICATION NUMBER: US 60/404,249

; PRIOR FILING DATE: 2002-08-16

; PRIOR APPLICATION NUMBER: US 60/407,527

; PRIOR FILING DATE: 2002-08-28

; NUMBER OF SEQ ID NOS: 75

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 32

; LENGTH: 461

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-411-026-32

Query Match 50.9%; Score 1427.5; DB 15; Length 461;

Best Local Similarity 58.6%; Pred. No. 5.3e-76;

Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy 1 MAPVAVMAALAVGLELWAAHALPAQVAFTPYAPPGSTCLRREYDQTAQMCCSKCSPG 60

Db 1 MAPVAVMAALAVGLELWAAHALPAQVAFTPYAPPGSTCLRREYDQTAQMCCSKCSPG 60

Qy 61 QHAKVFCTKTSDDTVCDSCEDSTYTQLMNVPECLSCGSRSSDQVETQACTREONRICTC 120

Db 61 QHAKVFCTKTSDDTVCDSCEDSTYTQLMNVPECLSCGSRSSDQVETQACTREONRICTC 120

Qy 121 RPYGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVCKPCAPGTFSTSTDIICR 180

Db 121 RPYGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVCKPCAPGTFSTSTDIICR 180

Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240

Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240

Qy 241 FLPMGSPPPARGGGGGGGGGSDPAQ-----VAFTYAPPEPG 282

Db 241 FLPMGSPPPAE-----GSTGDFALPVGLIVGTALGLLLIIGVNVCMVMTQVKKKP- 291

Qy 283 STCLRREYDQTAQMCCSKCSPG---QHAKVFCTKTSDDTVCDSCEDSTYTQLMNVPECL 339

Db 292 -LCLQREAKVPHLPADKARGTQGPQQHLLITAPSSSSSLES----- 333

Qy 340 SCGSRSSDQVETQACTREONRICTCPRPGWCALSKQEGCRLCAPLRCRPGFVARPGT 399

Db 334 -----SASALDRRAPRNPQ-----APGVBAS-----GAGEARAST 365

Qy 400 ETSDVCKPCAPGTFSTSTDIICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459

Db 366 GSSD--SSPGHGTVNVVTCIVNVVSSSDHSSQSSQASSTWGD--TDSSPSES--PKDE 419

Qy 460 HLP---QFVSTRSQHTQPTPEPSTAPSTSFLPLMG 491

Db 420 QVPFSKECAPRSQ--LETPELILGSTEKPLPLG 452

RESULT 14

US-10-410-962-32

; Sequence 32, Application US/10410962

; Publication No. US20040077836A1

; GENERAL INFORMATION:

; APPLICANT: Neose Technologies, Inc.

; APPLICANT: Defrees, Shawn

; APPLICANT: Zopf, David

; APPLICANT: Bayer, Robert

; APPLICANT: Hakes, David

; APPLICANT: Chen, Xi

; APPLICANT: Bove, Caryn

; TITLE OF INVENTION: GRANULOCYTE COLONY STIMULATING FACTOR: REMODELING AND

; TITLE OF INVENTION: GLYCOCONJUGATION OF G-CSF

; FILE REFERENCE: 040853-01-5054

; CURRENT APPLICATION NUMBER: US/10/410,962

; CURRENT FILING DATE: 2003-04-09

; PRIOR APPLICATION NUMBER: US 60/328,523

; PRIOR FILING DATE: 2001-10-10

; PRIOR APPLICATION NUMBER: US 60/344,692

; PRIOR FILING DATE: 2001-10-19

; PRIOR APPLICATION NUMBER: US 60/387,292

; PRIOR FILING DATE: 2002-06-07

; PRIOR APPLICATION NUMBER: US 60/391,777

; PRIOR FILING DATE: 2002-06-25

; PRIOR APPLICATION NUMBER: US 60/396,594

; PRIOR FILING DATE: 2002-07-17

; PRIOR APPLICATION NUMBER: US 60/404,249

; PRIOR FILING DATE: 2002-08-16

; PRIOR APPLICATION NUMBER: US 60/407,527

; PRIOR FILING DATE: 2002-08-28

; NUMBER OF SEQ ID NOS: 75

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 32

; LENGTH: 461

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-410-962-32

Query Match 50.9%; Score 1427.5; DB 15; Length 461;

Best Local Similarity 58.6%; Pred. No. 5.3e-76;

Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy 1 MAPVAVMAALAVGLELWAAHALPAQVAFTPYAPPGSTCLRREYDQTAQMCCSKCSPG 60

Db 1 MAPVAVMAALAVGLELWAAHALPAQVAFTPYAPPGSTCLRREYDQTAQMCCSKCSPG 60

Qy 61 QHAKVFCTKTSDDTVCDSCEDSTYTQLMNVPECLSCGSRSSDQVETQACTREONRICTC 120

Db 61 QHAKVFCTKTSDDTVCDSCEDSTYTQLMNVPECLSCGSRSSDQVETQACTREONRICTC 120

Qy 121 RPYGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVCKPCAPGTFSTSTDIICR 180

Db 121 RPYGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVCKPCAPGTFSTSTDIICR 180

Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240

Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240

Qy 241 FLPMGSPPPARGGGGGGGGGSDPAQ-----VAFTYAPPEPG 282

Db 241 FLPMGSPPPAE-----GSTGDFALPVGLIVGTALGLLLIIGVNVCMVMTQVKKKP- 291

Qy 283 STCLRREYDQTAQMCCSKCSPG---QHAKVFCTKTSDDTVCDSCEDSTYTQLMNVPECL 339

Db 292 -LCLOREAKVPHLPADKARGTQGEQOHLITAPSSSSSLES----- 333  
Qy 340 SCGRSSDOVETOACTREONRICTCRPGWYCALSKQEGCRLCAPLKRCPGFGVARPGT 399  
Db 334 -----SASALDRRAPTRNQ-----APGVEAS-----GAGEARAST 365  
Qy 400 ETSDVCKPCAPGTFSTSTIDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459  
Db 366 GSSD--SSPGHGCTQVNVTCIVNVCSHSSQSSQASSTMGD--TDSSPSES--PKDE 419  
Qy 460 HLP---QPVSTRQHTOPTPEPSTAPSTSFLLPMG 491  
Db 420 QVPFSKEECAFRSQ--LETPETLLGSTEEKPLPLG 452

RESULT 15  
US-10-411-049-32  
; Sequence 32, Application US/10411049  
; Publication No. US20040082026A1  
; GENERAL INFORMATION:  
; APPLICANT: Neose Technologies, Inc.  
; APPLICANT: DeFrees, Shawn  
; APPLICANT: Zopf, David  
; APPLICANT: Bayer, Robert  
; APPLICANT: Hakes, David  
; APPLICANT: Chen, Xi  
; APPLICANT: Bowe, Caryn  
; TITLE OF INVENTION: INTERFERON ALPHA: REMODELING AND GLYCOCONJUGATION OF INTERFERON  
; TITLE OF INVENTION: ALPHA  
; FILE REFERENCE: 040853-01-5055  
; CURRENT APPLICATION NUMBER: US/10/411,049  
; CURRENT FILING DATE: 2003-04-09  
; PRIOR APPLICATION NUMBER: US 60/328,523  
; PRIOR FILING DATE: 2001-10-10  
; PRIOR APPLICATION NUMBER: US 60/344,692  
; PRIOR FILING DATE: 2001-10-19  
; PRIOR APPLICATION NUMBER: US 60/387,292  
; PRIOR FILING DATE: 2002-06-07  
; PRIOR APPLICATION NUMBER: US 60/391,777  
; PRIOR FILING DATE: 2002-06-25  
; PRIOR APPLICATION NUMBER: US 60/396,594  
; PRIOR FILING DATE: 2002-07-17  
; PRIOR APPLICATION NUMBER: US 60/404,249  
; PRIOR FILING DATE: 2002-08-16  
; PRIOR APPLICATION NUMBER: US 60/407,527  
; PRIOR FILING DATE: 2002-08-28  
; NUMBER OF SEQ ID NOS: 75  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 32  
; LENGTH: 461  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-411-049-32

Query Match 50.9%; Score 1427.5; DB 15; Length 461;  
Best Local Similarity 58.6%; Pred. No. 5.3e-76;  
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy 1 MAPVAVAAALAVGLELWAAHAHALPAQVAFTPYAPFGSTCRLREYVDQTAQMCCSKCSPG 60  
Db 1 MAPVAVAAALAVGLELWAAHAHALPAQVAFTPYAPFGSTCRLREYVDQTAQMCCSKCSPG 60  
Qy 61 QHAKVCTKTSIDTVCDSCEDSTYQLNWNWVPECLSCGRSSDOVETOACTREONRICTC 120  
Db 61 QHAKVCTKTSIDTVCDSCEDSTYQLNWNWVPECLSCGRSSDOVETOACTREONRICTC 120  
Qy 121 RPGWYCALSKQEGCRLCAPLKRCPGFGVARPGTETSDVVKCPAGTFTSNTTSSDIDICR 180  
Db 121 RPGWYCALSKQEGCRLCAPLKRCPGFGVARPGTETSDVVKCPAGTFTSNTTSSDIDICR 180  
Qy 181 PHOICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240

Db 181 PHOICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240  
Qy 241 FLLEPMGSPSPARGGGGGGGGGSDPAQ-----VAFTYAPPEPG 282  
Db 241 FLLEPMGSPSPAE-----GSTGDFALPVGLIVGVVTALGLLIIGVVNCVIMTQVKKKP- 291  
Qy 283 STCRLREYVDQTAQMCCSKCSPG---QHAKVCTKTSIDTVCDSCEDSTYQLNWNWVPECL 339  
Db 292 -LCLOREAKVPHLPADKARGTQGEQOHLITAPSSSSSLES----- 333  
Qy 340 SCGRSSDOVETOACTREONRICTCRPGWYCALSKQEGCRLCAPLKRCPGFGVARPGT 399  
Db 334 -----SASALDRRAPTRNQ-----APGVEAS-----GAGEARAST 365  
Qy 400 ETSDVCKPCAPGTFSTSTIDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459  
Db 366 GSSD--SSPGHGCTQVNVTCIVNVCSHSSQSSQASSTMGD--TDSSPSES--PKDE 419  
Qy 460 HLP---QPVSTRQHTOPTPEPSTAPSTSFLLPMG 491  
Db 420 QVPFSKEECAFRSQ--LETPETLLGSTEEKPLPLG 452

Search completed: June 2, 2005, 20:44:44  
Job time : 145 secs

***This Page Blank (uspto)***